BENNETTSEN LAKE MASON COUNTY

LATITUDE 47°28'11" LONGITUDE 122°57'27" T23N-R2W-20
TAHUYA RIVER BASIN

PHYSICAL DATA		CULTURAL DATA	
DRAINAGE AREA	0.18 SQ MI	RESIDENTIAL DEVELOPMENT	6 %
ALTITUDE	38. FT		
LAKE AREA	28. ACRES	NUMBER OF NEARSHORE HOMES	2
LAKE VOLUME	310. ACRE-FT		
MEAN DEPTH	11. FT	LAND USE IN DRAINAGE BASIN	
MAXIMUM DEPTH	20. FT		
SHORELINE LENGTH	1.1 MI	RESIDENTIAL URBAN	0 %
SHORELINE CONFIGURATION	1.4	RESIDENTIAL SUBURBAN	0 %
DEVELOPMENT OF VOLUME	0.56	AGRICULTURAL	0 %
BOTTOM SLOPE	1.6 %	FOREST OR UNPRODUCTIVE	76 %
BASIN GEOLOGY	SED./META.	LAKE SURFACE	24 %
INFLOW	NONE VISIBLE		
OUTFLOW CHANNEL	PRESENT	PUBLIC BOAT ACCESS TO LAKE	--

WATER-QUALITY DATA (IN MG/L UNLESS OTHERWISE INDICATED)

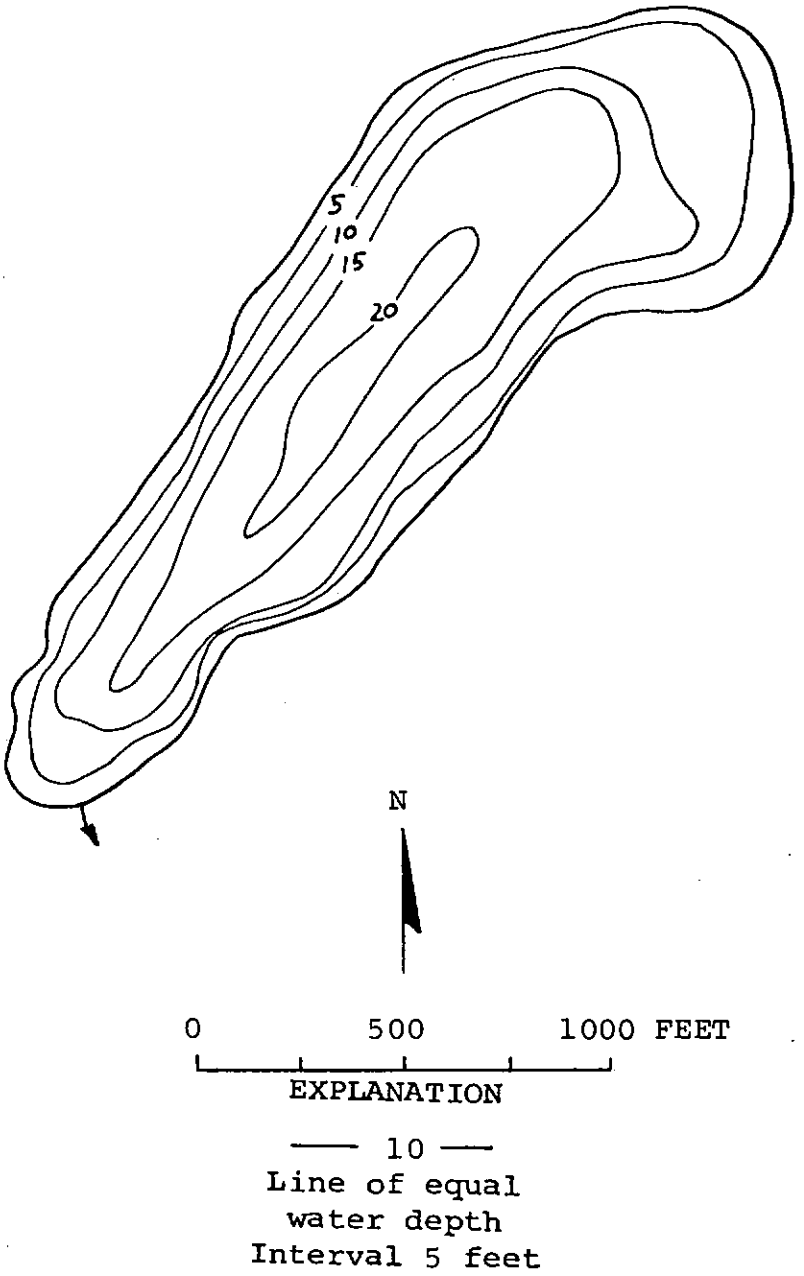
SAMPLE SITE	1	
DATE	8/22/74	
TIME	1040	1045
DEPTH (FT)	3.	13.
TOTAL NITRATE (N)	0.01	0.01
TOTAL NITRITE (N)	0.00	0.00
TOTAL AMMONIA (N)	0.08	0.07
TOTAL ORGANIC NITROGEN (N)	0.59	0.50
TOTAL PHOSPHORUS (P)	0.007	0.016
TOTAL ORTHOPHOSPHATE (P)	0.003	0.003
SPECIFIC CONDUCTANCE (MICROMHOS)	19	19
WATER TEMPERATURE (DEG C)	20.0	19.8
COLOR (PLATINUM-COBALT UNITS)	15	10
SECCHI-DISC VISIBILITY (FT)	9	
DISSOLVED OXYGEN	8.2	7.9

LAKE SHORELINE COVERED BY EMERSED PLANTS	76-100 %
LAKE SURFACE COVERED BY EMERSED PLANTS	NONE OR <1 %

DATE	8/22/74
TIME	1055
NUMBER OF FECAL COLIFORM SAMPLES	3
FECAL COLIFORM, MINIMUM (COL./100ML)	<1
FECAL COLIFORM, MAXIMUM (COL./100ML)	<1
FECAL COLIFORM, MEAN (COL./100ML)	<1

REMARKS

THE LAKESHORE IS OCCUPIED BY A GIRL SCOUT CAMP. THE SHORELINE WAS COVERED BY A THIN MARGIN OF EMERSED PLANTS. THE LITTORAL BOTTOM IS MOSTLY SILT.



Bennettsen Lake, Mason County. From Washington Department of Game, March 1, 1951.

Bennettsen Lake, Mason County. June 29, 1974. Approx. scale 1:4800.

BENSON LAKE MASON COUNTY

LATITUDE 47°19'58" LONGITUDE 122°55'22" T21N-R2W-3
PUGET SOUND BASIN

PHYSICAL DATA		CULTURAL DATA	
DRAINAGE AREA	0.63 SQ MI	RESIDENTIAL DEVELOPMENT	95 %
ALTITUDE	222. FT		
LAKE AREA	82. ACRES	NUMBER OF NEARSHORE HOMES	93
LAKE VOLUME	1900. ACRE-FT		
MEAN DEPTH	23. FT	LAND USE IN DRAINAGE BASIN	
MAXIMUM DEPTH	35. FT		
SHORELINE LENGTH	1.7 MI	RESIDENTIAL URBAN	0 %
SHORELINE CONFIGURATION	1.3	RESIDENTIAL SUBURBAN	6 %
DEVELOPMENT OF VOLUME	0.64	AGRICULTURAL	0 %
BOTTOM SLOPE	1.6 %	FOREST OR UNPRODUCTIVE	74 %
BASIN GEOLOGY	SED./META.	LAKE SURFACE	20 %
INFLOW	NONE VISIBLE		
OUTFLOW CHANNEL	PRESENT	PUBLIC BOAT ACCESS TO LAKE	YES

WATER-QUALITY DATA (IN MG/L UNLESS OTHERWISE INDICATED)

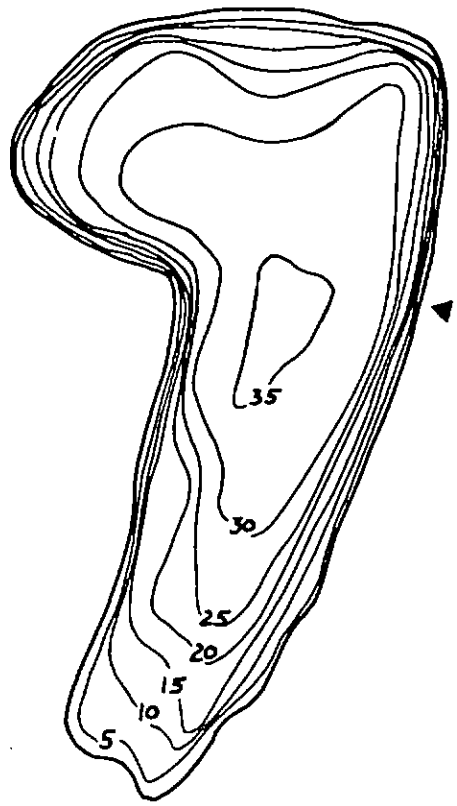
SAMPLE SITE	1	
DATE	8/27/74	
TIME	1030	1035
DEPTH (FT)	3.	28.
TOTAL NITRATE (N)	0.00	0.00
TOTAL NITRITE (N)	0.00	0.00
TOTAL AMMONIA (N)	0.04	0.04
TOTAL ORGANIC NITROGEN (N)	0.13	0.22
TOTAL PHOSPHORUS (P)	0.008	0.008
TOTAL ORTHOPHOSPHATE (P)	0.003	0.004
SPECIFIC CONDUCTANCE (MICROMHOS)	18	18
WATER TEMPERATURE (DEG C)	21.5	20.8
COLOR (PLATINUM-COBALT UNITS)	0	0
SECCHI-DISC VISIBILITY (FT)	15	
DISSOLVED OXYGEN	8.8	8.6

LAKE SHORELINE COVERED BY EMERSED PLANTS	1- 10 %
LAKE SURFACE COVERED BY EMERSED PLANTS	NONE OR <1 %

DATE	8/27/74
TIME	1030
NUMBER OF FECAL COLIFORM SAMPLES	4
FECAL COLIFORM, MINIMUM (COL./100ML)	<1
FECAL COLIFORM, MAXIMUM (COL./100ML)	5
FECAL COLIFORM, MEAN (COL./100ML)	2

REMARKS

THE LAKE IS TIGHTLY SURROUNDED BY RESIDENTIAL HOMES. VERY FEW AQUATIC MACROPHYTES WERE SUPPORTED ON THE GRAVEL AND SAND LITTORAL BOTTOM.



N

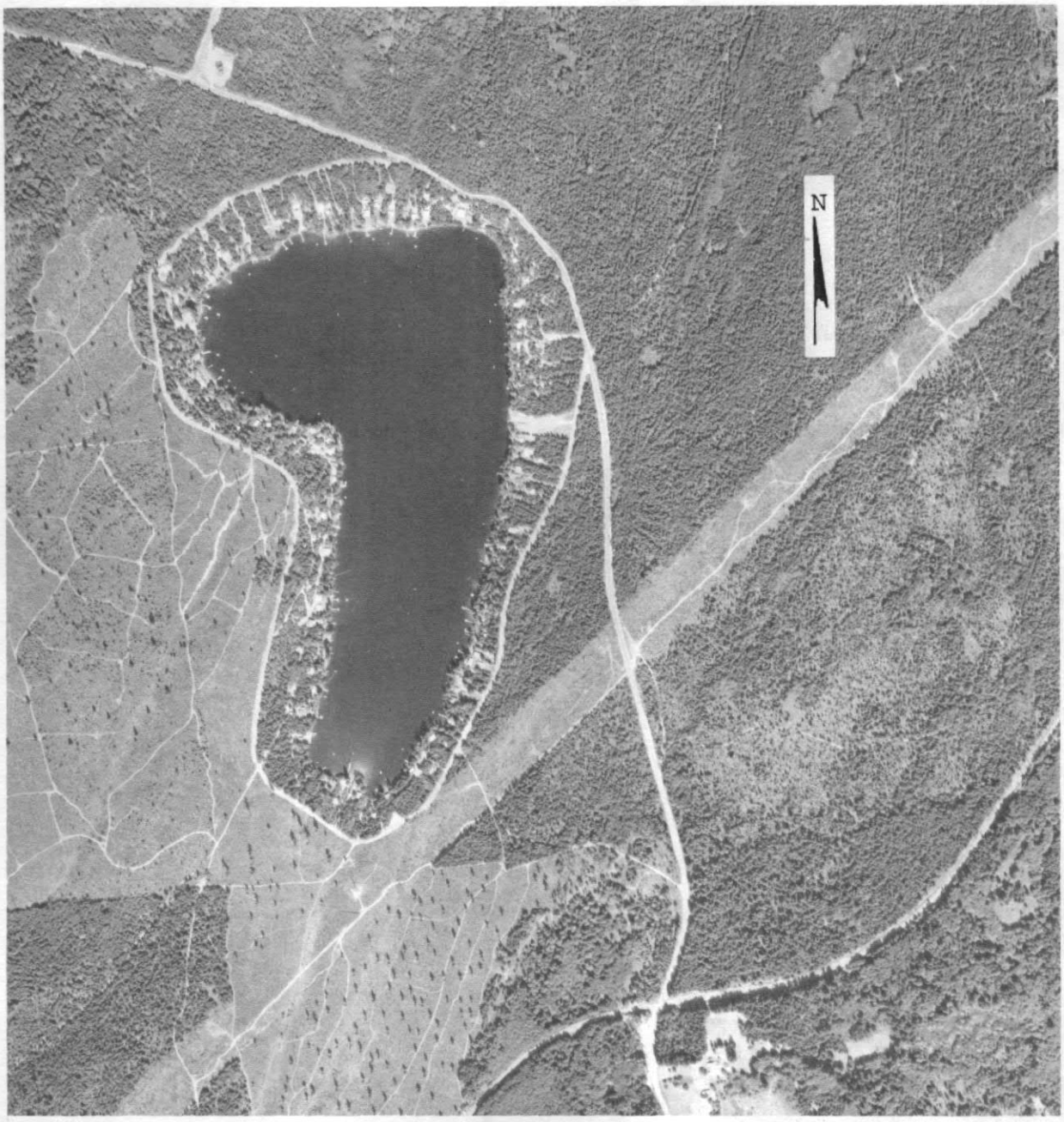
0 1000 2000 FEET

EXPLANATION

— 10 —

Line of equal
water depth
Interval 5 feet

Benson Lake, Mason County. From Washington Department of Game, August 5, 1951.



Benson Lake, Mason County. September 3, 1973. Approx. scale 1:12,000.

CRANBERRY LAKE MASON COUNTY

LATITUDE 47*17' 4" LONGITUDE 123* 3'45" T21N-R3W-28
PUGET SOUND BASIN

PHYSICAL DATA		CULTURAL DATA	
DRAINAGE AREA	9.03 SQ MI	RESIDENTIAL DEVELOPMENT	0 %
ALTITUDE	230. FT		
LAKE AREA	190. ACRES	NUMBER OF NEARSHORE HOMES	0
LAKE VOLUME	890. ACRE-FT		
MEAN DEPTH	5. FT	LAND USE IN DRAINAGE BASIN	
MAXIMUM DEPTH	10. FT		
SHORELINE LENGTH	4.6 MI	RESIDENTIAL URBAN	0 %
SHORELINE CONFIGURATION	2.4	RESIDENTIAL SUBURBAN	0 %
DEVELOPMENT OF VOLUME	0.46	AGRICULTURAL	0 %
BOTTOM SLOPE	0.31 %	FOREST OR UNPRODUCTIVE	97 %
BASIN GEOLOGY	SED./META.	LAKE SURFACE	3 %
INFLOW	INTERMITTENT		
OUTFLOW CHANNEL	PRESENT	PUBLIC BOAT ACCESS TO LAKE	YES

WATER-QUALITY DATA (IN MG/L UNLESS OTHERWISE INDICATED)

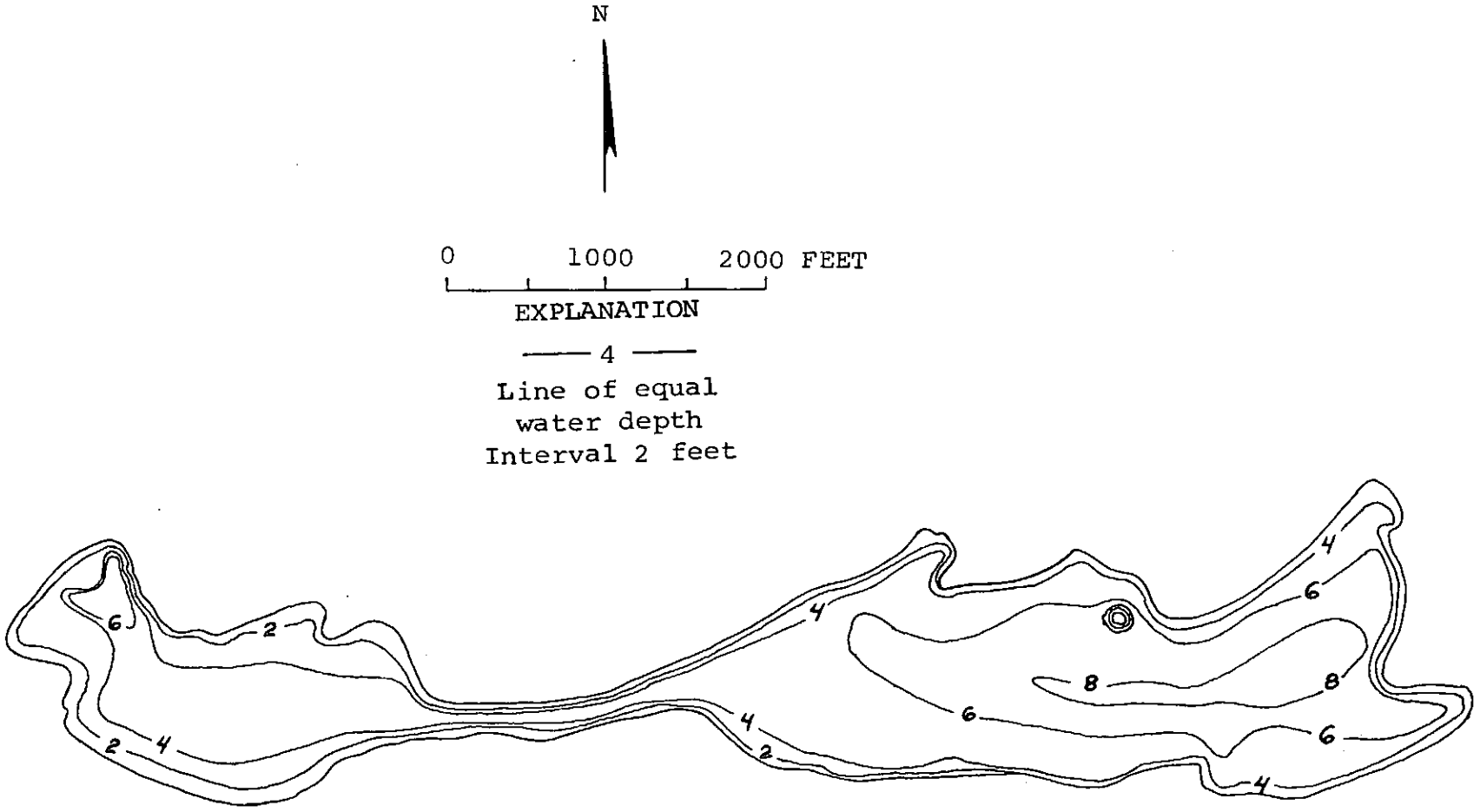
SAMPLE SITE	1	
DATE	8/16/74	
TIME	1205	1210
DEPTH (FT)	3.	5.
TOTAL NITRATE (N)	0.02	0.01
TOTAL NITRITE (N)	0.00	0.00
TOTAL AMMONIA (N)	0.06	0.06
TOTAL ORGANIC NITROGEN (N)	0.71	0.69
TOTAL PHOSPHORUS (P)	0.023	0.020
TOTAL ORTHOPHOSPHATE (P)	0.004	0.004
SPECIFIC CONDUCTANCE (MICROMHOS)	59	59
WATER TEMPERATURE (DEG C)	19.1	19.1
COLOR (PLATINUM-COBALT UNITS)	10	10
SECCHI-DISC VISIBILITY (FT)	> 7	
DISSOLVED OXYGEN	10.6	10.6

LAKE SHORELINE COVERED BY EMERSED PLANTS	76-100 %
LAKE SURFACE COVERED BY EMERSED PLANTS	11- 25 %

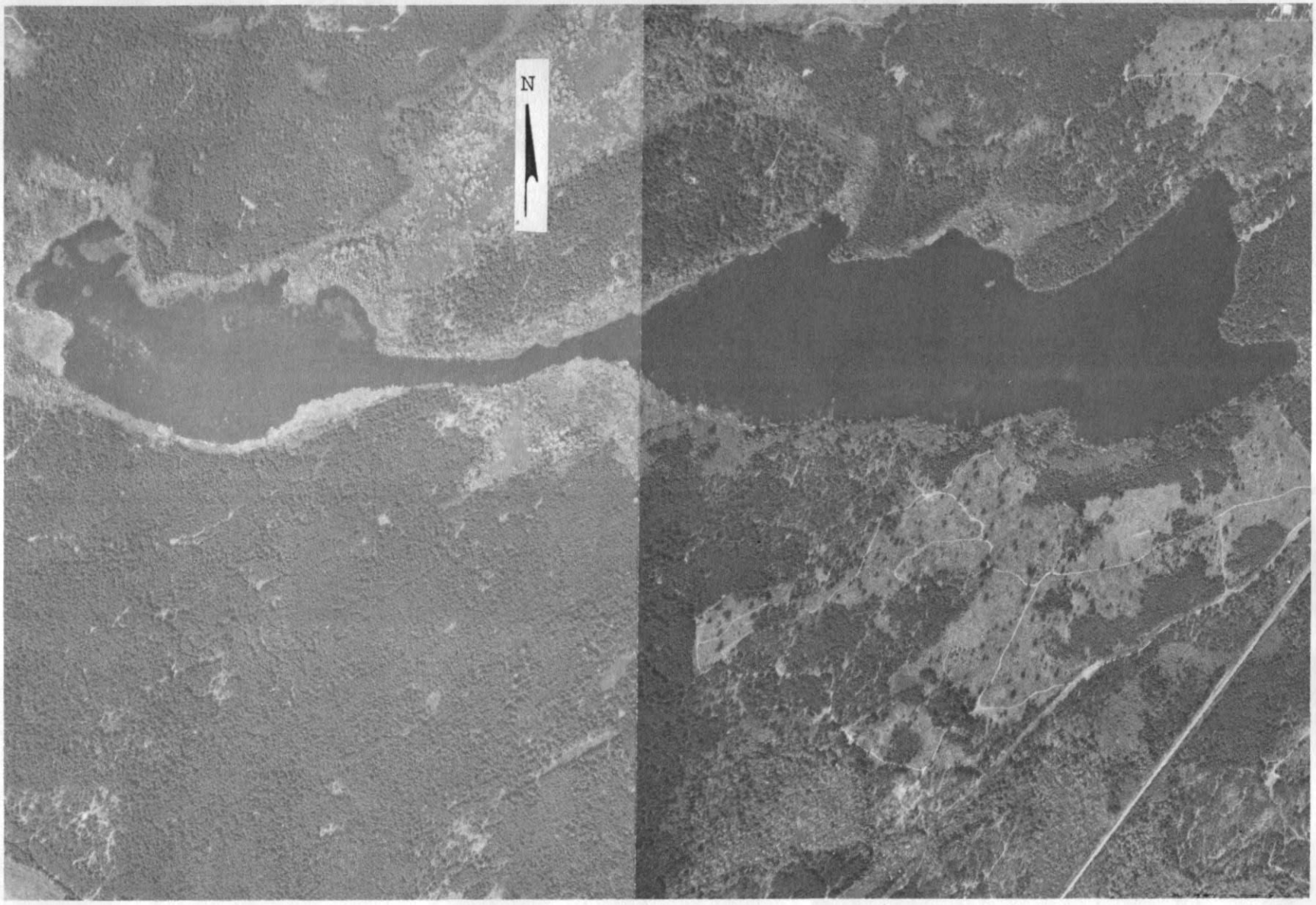
DATE	8/16/74
TIME	1205
NUMBER OF FECAL COLIFORM SAMPLES	3
FECAL COLIFORM, MINIMUM (COL./100ML)	<1
FECAL COLIFORM, MAXIMUM (COL./100ML)	5
FECAL COLIFORM, MEAN (COL./100ML)	2

REMARKS

A LARGE SHALLOW LAKE FED BY THREE UNNAMED TRIBUTARIES, ONE OF WHICH DRAINS A LARGE MARSH ON THE WEST SIDE OF THE LAKE. THE OUTFLOW IS VIA CRANBERRY CREEK WHICH FLOWS TO LIMERICK LAKE. AT ONE TIME THE LAKE WAS USED AS A SALMON REARING POND BY THE DEPT. OF FISHERIES. THE LAKE HAD A HEAVY COVER OF BOTH EMERSED AND SUBMERSED PLANTS. MOST OF THE EMERSED PLANTS ARE IN THE WEST BAY. THE LITTORAL BOTTOM IS SILT AND MUCK. THERE WERE LOGS AND WOOD DEBRIS ALONG THE SHORE.



Cranberry Lake, Mason County.
From U.S. Geological Survey, February 4, 1974.



Cranberry Lake, Mason County. May 13, 1972. Approx. scale 1:12,000.

CUSHMAN LAKE, MASON COUNTY

LATITUDE 47°25' 9" LONGITUDE 123°13'25" T22N-R4W-5
SKOKOMISH RIVER BASIN

PHYSICAL DATA		CULTURAL DATA	
DRAINAGE AREA	93.7 SQ MI	RESIDENTIAL DEVELOPMENT	11 %
ALTITUDE	735. FT		
LAKE AREA	4000. ACRES	NUMBER OF NEARSHORE HOMES	62
LAKE VOLUME	450000. ACRE-FT		
MEAN DEPTH	110. FT	LAND USE IN DRAINAGE BASIN	
MAXIMUM DEPTH	270. FT		
SHORELINE LENGTH	23. MI	RESIDENTIAL URBAN	0 %
SHORELINE CONFIGURATION	2.6	RESIDENTIAL SUBURBAN	<1 %
DEVELOPMENT OF VOLUME	0.42	AGRICULTURAL	0 %
BOTTOM SLOPE	1.8 %	FOREST OR UNPRODUCTIVE	93 %
BASIN GEOLOGY	IGNEOUS	LAKE SURFACE	7 %
INFLOW	PERENNIAL		
OUTFLOW CHANNEL	PRESENT	PUBLIC BOAT ACCESS TO LAKE	YES

WATER-QUALITY DATA (IN MG/L UNLESS OTHERWISE INDICATED)

SAMPLE SITE	1		2		3	
DATE	8/21/74		8/21/74		8/21/74	
TIME	1125	1130	1220	1225	1315	1320
DEPTH (FT)	3.	164.	3.	115.	3.	98.
TOTAL NITRATE (N)	0.02	0.07	0.04	0.02	0.02	0.02
TOTAL NITRITE (N)	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL AMMONIA (N)	0.02	0.02	0.02	0.02	0.02	0.05
TOTAL ORGANIC NITROGEN (N)	0.23	0.06	0.07	0.03	0.03	0.06
TOTAL PHOSPHORUS (P)	0.004	0.002	0.004	0.001	0.002	0.001
TOTAL ORTHOPHOSPHATE (P)	0.002	0.002	0.002	0.001	0.001	0.001
SPECIFIC CONDUCTANCE (MICROMHOS)	55	60	56	60	56	60
WATER TEMPERATURE (DEG C)	18.6	5.9	19.0	7.1	19.2	8.3
COLOR (PLATINUM-COBALT UNITS)	0	0	0	0	0	0
SECCHI-DISC VISIBILITY (FT)	25		25		26	
DISSOLVED OXYGEN	9.1	9.8	9.0	9.6	8.9	9.7

LAKE SHORELINE COVERED BY EMERSED PLANTS	LITTLE OR NONE
LAKE SURFACE COVERED BY EMERSED PLANTS	NONE OR <1 %

DATE	8/21/74
TIME	1030
NUMBER OF FECAL COLIFORM SAMPLES	7
FECAL COLIFORM, MINIMUM (COL./100ML)	<1
FECAL COLIFORM, MAXIMUM (COL./100ML)	6
FECAL COLIFORM, MEAN (COL./100ML)	1

REMARKS

A NATURAL LAKE INCREASED IN SIZE BY A DAM ON THE NORTH FORK SKOKOMISH RIVER. THE LAKE IS USED FOR HYDROPOWER BY THE CITY OF TACOMA. THE UPPER PART OF THE DRAINAGE BASIN IS NATIONAL FOREST, BUT DEVELOPMENT IN THE FORM OF RECREATIONAL AND RESIDENTIAL USE IS OCCURRING ON THE NORTHEAST PORTION OF THE LAKE. THE DO WAS NEAR SATURATION THROUGHOUT THE WATER COLUMN AT THREE SAMPLING STATIONS. FLOATING AND SUBMERGED LOGS WERE OBSERVED LOCALLY AROUND THE LAKESHORE.

Cushman Lake, Mason County. September 14, 1971. Approx. scale 1:63,000.

CUSHMAN, LOWER LAKE MASON COUNTY

LATITUDE 47*23'51" LONGITUDE 123*11'59" T22N-R4W-16
SKOKOMISH RIVER BASIN

PHYSICAL DATA		CULTURAL DATA	
DRAINAGE AREA	99.2 SQ MI	RESIDENTIAL DEVELOPMENT	0 %
ALTITUDE	475. FT		
LAKE AREA	150. ACRES	NUMBER OF NEARSHORE HOMES	0
LAKE VOLUME	8000. ACRE-FT		
MEAN DEPTH	53. FT	LAND USE IN DRAINAGE BASIN	
MAXIMUM DEPTH	170. FT		
SHORELINE LENGTH	4.5 MI	RESIDENTIAL URBAN	0 %
SHORELINE CONFIGURATION	2.6	RESIDENTIAL SUBURBAN	<1 %
DEVELOPMENT OF VOLUME	0.31	AGRICULTURAL	0 %
BOTTOM SLOPE	5.9 %	FOREST OR UNPRODUCTIVE	93 %
BASIN GEOLOGY	IGNEOUS	LAKE SURFACE	7 %
INFLOW	NONE VISIBLE		
OUTFLOW CHANNEL	PRESENT	PUBLIC BOAT ACCESS TO LAKE	YES

WATER-QUALITY DATA (IN MG/L UNLESS OTHERWISE INDICATED)

SAMPLE SITE	1	
DATE	8/26/74	
TIME	1500	1505
DEPTH (FT)	3.	128.
TOTAL NITRATE (N)	0.02	0.03
TOTAL NITRITE (N)	0.00	0.00
TOTAL AMMONIA (N)	0.04	0.04
TOTAL ORGANIC NITROGEN (N)	--	--
TOTAL PHOSPHORUS (P)	0.004	0.004
TOTAL ORTHOPHOSPHATE (P)	0.002	0.002
SPECIFIC CONDUCTANCE (MICROMHOS)	60	58
WATER TEMPERATURE (DEG C)	11.5	7.0
COLOR (PLATINUM-COBALT UNITS)	0	0
SECCHI-DISC VISIBILITY (FT)	28	
DISSOLVED OXYGEN	10.2	8.6

LAKE SHORELINE COVERED BY EMERSED PLANTS LITTLE OR NONE
LAKE SURFACE COVERED BY EMERSED PLANTS NONE OR <1 %

DATE	8/26/74
TIME	1500
NUMBER OF FECAL COLIFORM SAMPLES	3
FECAL COLIFORM, MINIMUM (COL./100ML)	<1
FECAL COLIFORM, MAXIMUM (COL./100ML)	2
FECAL COLIFORM, MEAN (COL./100ML)	1

REMARKS

AN ARTIFICIAL LAKE CREATED BY A DAM ON THE NORTH FORK SKOKOMISH RIVER. THE LAKE IS USED FOR HYDROPOWER BY THE CITY OF TACOMA. RESIDENTIAL DEVELOPMENT IS OCCURRING ON THE EAST AND SOUTH SHORES OF THE LAKE. THE DO WAS NEAR SATURATION THROUGHOUT THE WATER COLUMN.

Cushman, Lower Lake, Mason County. August 25, 1972. Approx. scale 1:12,000.

DEVEREAUX LAKE MASON COUNTY

LATITUDE 47°24'47" LONGITUDE 122°50'47" T22N-R1W-7
PUGET SOUND BASIN

PHYSICAL DATA		CULTURAL DATA	
DRAINAGE AREA	1.75 SQ MI	RESIDENTIAL DEVELOPMENT	11 %
ALTITUDE	215. FT		
LAKE AREA	94. ACRES	NUMBER OF NEARSHORE HOMES	20
LAKE VOLUME	1800. ACRE-FT		
MEAN DEPTH	19. FT	LAND USE IN DRAINAGE BASIN	
MAXIMUM DEPTH	55. FT		
SHORELINE LENGTH	2.5 MI	RESIDENTIAL URBAN	0 %
SHORELINE CONFIGURATION	1.8	RESIDENTIAL SUBURBAN	1 %
DEVELOPMENT OF VOLUME	0.35	AGRICULTURAL	0 %
BOTTOM SLOPE	2.4 %	FOREST OR UNPRODUCTIVE	91 %
BASIN GEOLOGY	SED./META.	LAKE SURFACE	8 %
INFLOW	NONE VISIBLE		
OUTFLOW CHANNEL	PRESENT	PUBLIC BOAT ACCESS TO LAKE	YES

WATER-QUALITY DATA (IN MG/L UNLESS OTHERWISE INDICATED)

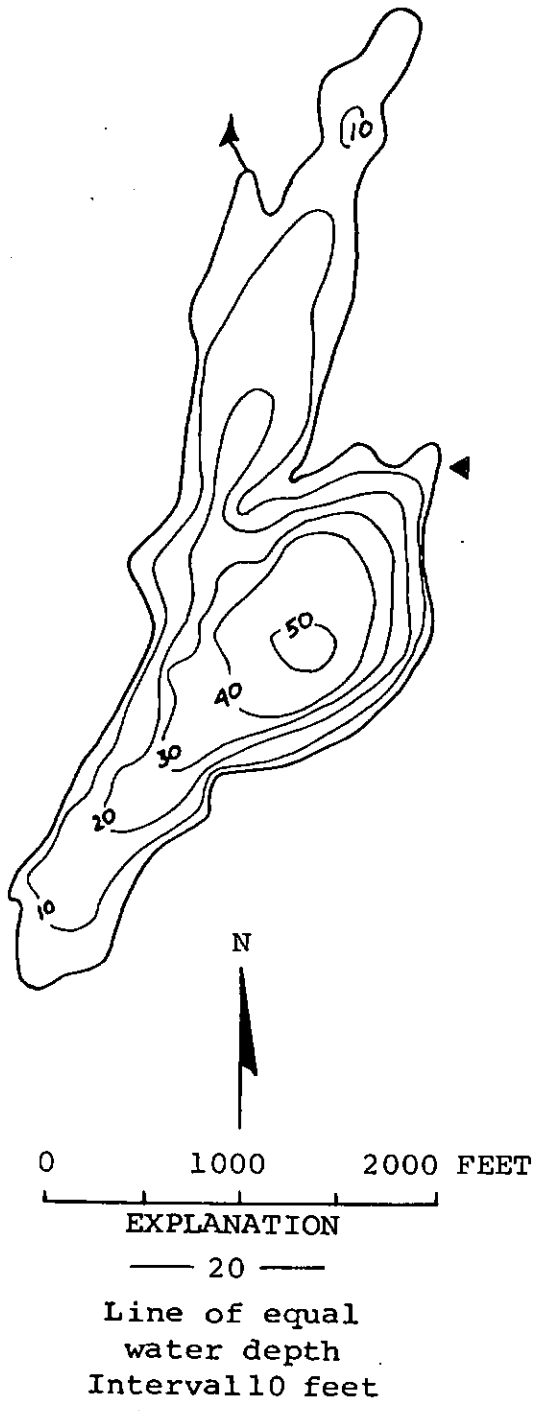
SAMPLE SITE	1	
DATE	8/27/74	
TIME	1400	1405
DEPTH (FT)	3.	36.
TOTAL NITRATE (N)	0.01	0.00
TOTAL NITRITE (N)	0.00	0.00
TOTAL AMMONIA (N)	0.06	0.05
TOTAL ORGANIC NITROGEN (N)	0.23	0.17
TOTAL PHOSPHORUS (P)	0.004	0.013
TOTAL ORTHOPHOSPHATE (P)	0.002	0.004
SPECIFIC CONDUCTANCE (MICROMHOS)	20	20
WATER TEMPERATURE (DEG C)	21.8	10.0
COLOR (PLATINUM-COBALT UNITS)	10	10
SECCHI-DISC VISIBILITY (FT)	21	
DISSOLVED OXYGEN	8.8	4.0

LAKE SHORELINE COVERED BY EMERSED PLANTS	76-100 %
LAKE SURFACE COVERED BY EMERSED PLANTS	NONE OR <1 %

DATE	8/27/74
TIME	1400
NUMBER OF FECAL COLIFORM SAMPLES	3
FECAL COLIFORM, MINIMUM (COL./100ML)	<1
FECAL COLIFORM, MAXIMUM (COL./100ML)	4
FECAL COLIFORM, MEAN (COL./100ML)	2

REMARKS

THE LAKESHORE IS PREDOMINATELY OCCUPIED BY A GIRL SCOUT CAMP. A SMALL PORTION OF THE NORTHEAST END OF THE LAKE IS RESIDENTIALLY DEVELOPED. THE SHORELINE WAS COVERED WITH A THIN MARGIN OF EMERSED PLANTS (SEDGE AND LILIES). THE DO WAS NEAR SATURATION EXCEPT FOR SOME DEPLETION NEAR THE LAKE BOTTOM.



Devereaux Lake, Mason County. From Washington Department of Game, June 9, 1949.

Devereaux Lake, Mason County. May 12, 1972. Approx. scale 1:12,000.

FAWN LAKE MASON COUNTY

LATITUDE 47° 9'39" LONGITUDE 123° 3'43" T19N-R3W-4
PUGET SOUND BASIN

PHYSICAL DATA		CULTURAL DATA	
DRAINAGE AREA	0.74 SQ MI	RESIDENTIAL DEVELOPMENT	33 %
ALTITUDE	160. FT		
LAKE AREA	56. ACRES	NUMBER OF NEARSHORE HOMES	23
LAKE VOLUME	460. ACRE-FT		
MEAN DEPTH	8. FT	LAND USE IN DRAINAGE BASIN	
MAXIMUM DEPTH	22. FT		
SHORELINE LENGTH	2.3 MI	RESIDENTIAL URBAN	0 %
SHORELINE CONFIGURATION	2.2	RESIDENTIAL SUBURBAN	10 %
DEVELOPMENT OF VOLUME	0.37	AGRICULTURAL	16 %
BOTTOM SLOPE	1.2 %	FOREST OR UNPRODUCTIVE	62 %
BASIN GEOLOGY	SED./META.	LAKE SURFACE	12 %
INFLOW	INTERMITTENT		
OUTFLOW CHANNEL	PRESENT	PUBLIC BOAT ACCESS TO LAKE	--

WATER-QUALITY DATA (IN MG/L UNLESS OTHERWISE INDICATED)

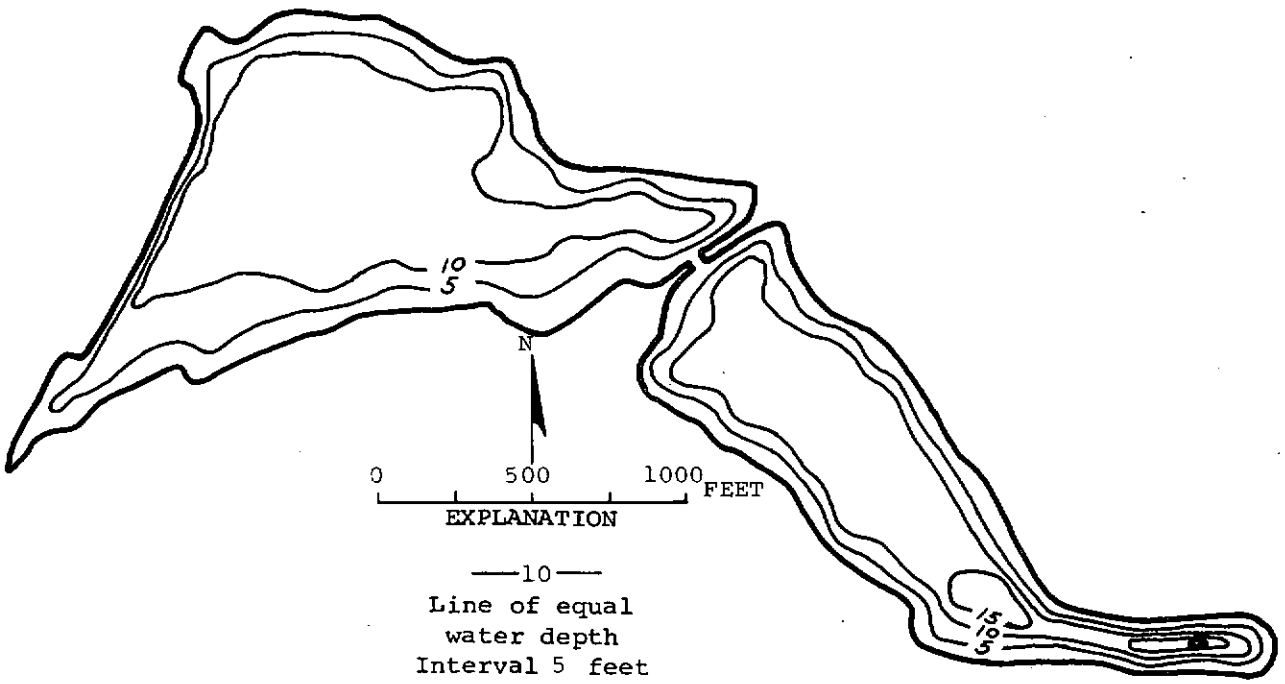
SAMPLE SITE	1		2	
DATE	8/20/74		8/20/74	
TIME	1030	1035	1115	1120
DEPTH (FT)	3.	8.	3.	8.
TOTAL NITRATE (N)	0.01	0.00	0.00	0.01
TOTAL NITRITE (N)	0.01	0.00	0.00	0.00
TOTAL AMMONIA (N)	0.09	0.11	0.24	0.25
TOTAL ORGANIC NITROGEN (N)	0.75	0.63	0.59	0.64
TOTAL PHOSPHORUS (P)	0.023	0.023	0.034	0.034
TOTAL ORTHOPHOSPHATE (P)	0.006	0.005	0.008	0.010
SPECIFIC CONDUCTANCE (MICROMHOS)	57	57	59	54
WATER TEMPERATURE (DEG C)	19.7	19.6	19.2	19.2
COLOR (PLATINUM-COBALT UNITS)	30	30	35	10
SECCHI-DISC VISIBILITY (FT)	9		9	
DISSOLVED OXYGEN	7.5	7.5	5.9	5.7

LAKE SHORELINE COVERED BY EMERSED PLANTS	76-100 %
LAKE SURFACE COVERED BY EMERSED PLANTS	1- 10 %

DATE	8/20/74
TIME	1040
NUMBER OF FECAL COLIFORM SAMPLES	4
FECAL COLIFORM, MINIMUM (COL./100ML)	<1
FECAL COLIFORM, MAXIMUM (COL./100ML)	8
FECAL COLIFORM, MEAN (COL./100ML)	3

REMARKS

PRIOR TO 1965 THE LAKE WAS A SWAMPY AREA WITH SOME OPEN WATER. DREDGING OF THE AREA AND DAMMING OF THE OUTLET CREATED AN ARTIFICIAL LAKE FOR COMMUNITY RESIDENTIAL AND RECREATIONAL USE. THE LAKE IS PARTIALLY DIVIDED BY A DIKE WITH A NARROW CHANNEL AND WAS SAMPLED AT TWO SITES. EMERSED PLANTS COVERED MOST OF THE SHORELINE AND SUBMERSED PLANTS (WATER MILFOIL) COVERED THE LAKE BOTTOM. THE LITTORAL BOTTOM WAS SILT WITH SOME GRAVEL.



Fawn Lake, Mason County. From U.S. Geological Survey, December 27, 1973.

Fawn Lake, Mason County. May 13, 1972. Approx. scale 1:12,000.

FORBES LAKE MASON COUNTY

LATITUDE 47*11'22" LONGITUDE 122*58'13" T20N-R2W-30
PUGET SOUND BASIN

PHYSICAL DATA		CULTURAL DATA	
DRAINAGE AREA	0.80 SQ MI	RESIDENTIAL DEVELOPMENT	0 %
ALTITUDE	95. FT		
LAKE AREA	39. ACRES	NUMBER OF NEARSHORE HOMES	0
LAKE VOLUME	730. ACRE-FT		
MEAN DEPTH	19. FT	LAND USE IN DRAINAGE BASIN	
MAXIMUM DEPTH	30. FT		
SHORELINE LENGTH	1.0 MI	RESIDENTIAL URBAN	0 %
SHORELINE CONFIGURATION	1.2	RESIDENTIAL SUBURBAN	0 %
DEVELOPMENT OF VOLUME	0.62	AGRICULTURAL	14 %
BOTTOM SLOPE	2.0 %	FOREST OR UNPRODUCTIVE	78 %
BASIN GEOLOGY	SED./META.	LAKE SURFACE	8 %
INFLOW	NONE VISIBLE		
OUTFLOW CHANNEL	ABSENT	PUBLIC BOAT ACCESS TO LAKE	--

WATER-QUALITY DATA (IN MG/L UNLESS OTHERWISE INDICATED)

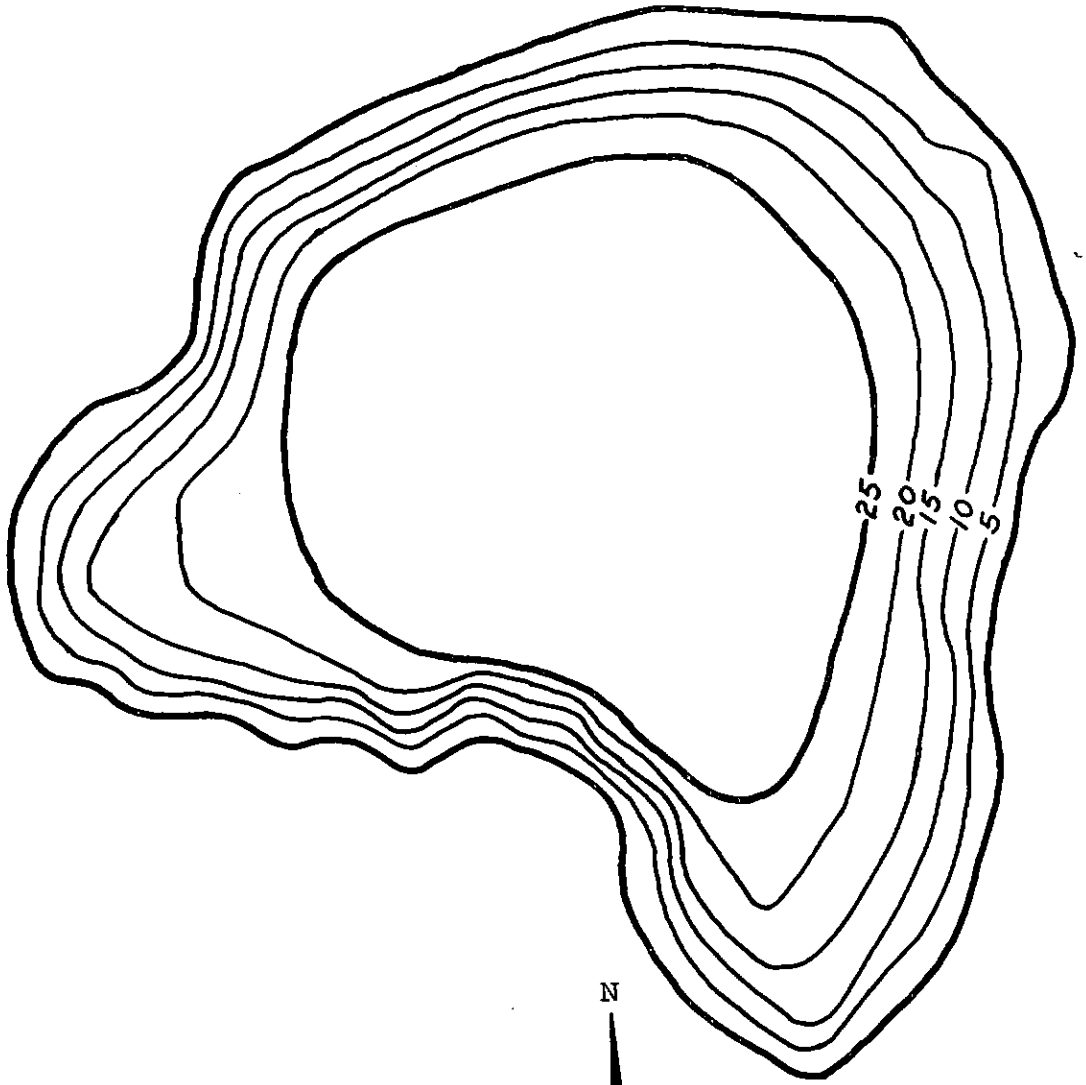
SAMPLE SITE	1	
DATE	8/20/74	
TIME	1205	1210
DEPTH (FT)	3.	21.
TOTAL NITRATE (N)	0.00	0.01
TOTAL NITRITE (N)	0.01	0.00
TOTAL AMMONIA (N)	0.07	0.27
TOTAL ORGANIC NITROGEN (N)	0.92	0.53
TOTAL PHOSPHORUS (P)	0.011	0.079
TOTAL ORTHOPHOSPHATE (P)	0.004	0.045
SPECIFIC CONDUCTANCE (MICROMHOS)	42	50
WATER TEMPERATURE (DEG C)	19.1	8.3
COLOR (PLATINUM-COBALT UNITS)	30	75
SECCHI-DISC VISIBILITY (FT)	9	
DISSOLVED OXYGEN	8.6	0.4

LAKE SHORELINE COVERED BY EMERSED PLANTS	51- 75 %
LAKE SURFACE COVERED BY EMERSED PLANTS	NONE OR <1 %

DATE	8/20/74
TIME	1220
NUMBER OF FECAL COLIFORM SAMPLES	3
FECAL COLIFORM, MINIMUM (COL./100ML)	<1
FECAL COLIFORM, MAXIMUM (COL./100ML)	2
FECAL COLIFORM, MEAN (COL./100ML)	1

REMARKS

THE SHORELAND ON THE NORTH SIDE OF THE LAKE IS USED FOR AGRICULATURE AND FOREST SURROUNDS THE REST OF THE LAKE. THIN PATCHES OF AQUATIC MACROPHYTES WERE OBSERVED. THE LITTORAL BOTTOM IS MOSTLY SILT AND MUCK. HYDROGEN SULFIDE WAS DETECTED IN THE HYPOLIMNION.



0 500 1000 FEET

EXPLANATION

—10—

Line of equal
water depth
Interval 5 feet

Forbes Lake, Mason County.
From U.S. Geological Survey, February 4, 1974.

Forbes Lake, Mason County. June 30, 1974. Approx. scale 1:4800.

HANKS LAKE MASON COUNTY

LATITUDE 47°14'48" LONGITUDE 123°15' 5" T20N-R5W-1
PUGET SOUND BASIN

PHYSICAL DATA		CULTURAL DATA	
DRAINAGE AREA	0.93 SQ MI	RESIDENTIAL DEVELOPMENT	0 %
ALTITUDE	400. FT		
LAKE AREA	26. ACRES	NUMBER OF NEARSHORE HOMES	0
LAKE VOLUME (EST.)	75. ACRE-FT		
MEAN DEPTH (EST.)	3. FT	LAND USE IN DRAINAGE BASIN	
MAXIMUM DEPTH	5. FT		
SHORELINE LENGTH	1.6 MI	RESIDENTIAL URBAN	0 %
SHORELINE CONFIGURATION	2.2	RESIDENTIAL SUBURBAN	0 %
DEVELOPMENT OF VOLUME	0.55	AGRICULTURAL	0 %
BOTTOM SLOPE	0.43 %	FOREST OR UNPRODUCTIVE	97 %
BASIN GEOLOGY	SED./META.	LAKE SURFACE	3 %
INFLOW	NONE VISIBLE		
OUTFLOW CHANNEL	ABSENT	PUBLIC BOAT ACCESS TO LAKE	YES

WATER-QUALITY DATA (IN MG/L UNLESS OTHERWISE INDICATED)

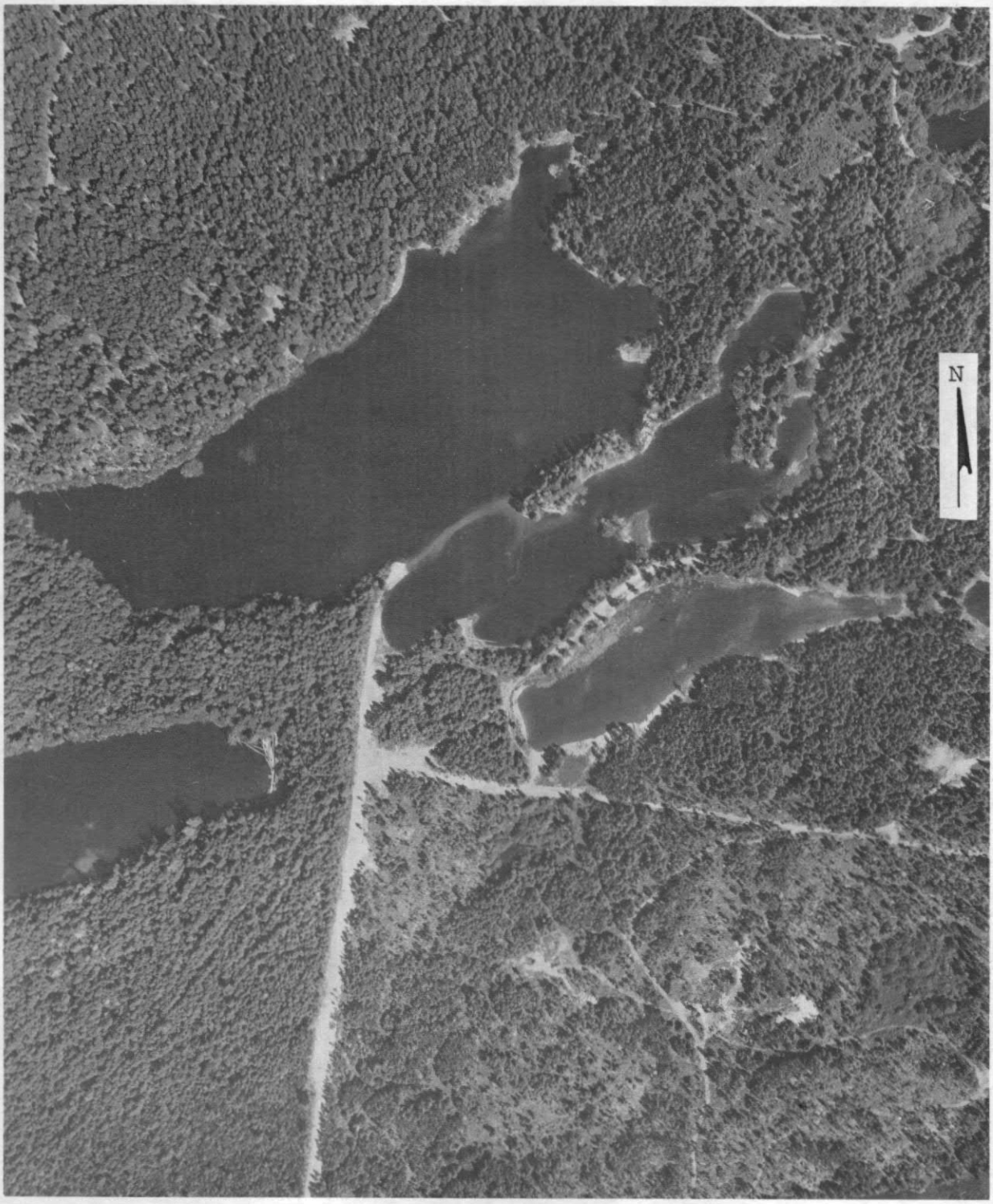
SAMPLE SITE	1	
DATE	8/15/74	
TIME	1100	1105
DEPTH (FT)	2.	3.
TOTAL NITRATE (N)	0.01	0.01
TOTAL NITRITE (N)	0.00	0.00
TOTAL AMMONIA (N)	0.05	0.09
TOTAL ORGANIC NITROGEN (N)	0.59	0.42
TOTAL PHOSPHORUS (P)	0.012	0.014
TOTAL ORTHOPHOSPHATE (P)	0.004	0.004
SPECIFIC CONDUCTANCE (MICROMHOS)	36	36
WATER TEMPERATURE (DEG C)	18.4	18.2
COLOR (PLATINUM-COBALT UNITS)	5	5
SECCHI-DISC VISIBILITY (FT)	> 5	
DISSOLVED OXYGEN	9.3	9.2

LAKE SHORELINE COVERED BY EMERSED PLANTS	51- 75 %
LAKE SURFACE COVERED BY EMERSED PLANTS	26- 50 %

DATE	8/15/74
TIME	1115
NUMBER OF FECAL COLIFORM SAMPLES	3
FECAL COLIFORM, MINIMUM (COL./100ML)	<1
FECAL COLIFORM, MAXIMUM (COL./100ML)	1
FECAL COLIFORM, MEAN (COL./100ML)	1

REMARKS

THE LARGEST OF A GROUP OF SEVERAL SMALL LAKES. TREES AND SHRUBS OVERHANG THE WATER. THE LAKE HAD A HEAVY COVER OF BOTH EMERSED AND SUBMERSED PLANTS. THERE IS NO BATHYMETRIC MAP OF THE LAKE AND THE LAKE VOLUME HAS BEEN ESTIMATED.



Hanks Lake, Mason County. June 30, 1974. Approx. scale 1:4800.

HAVEN LAKE MASON COUNTY

LATITUDE 47°27'28" LONGITUDE 122°58'33" T23N-R2W-30
TAHUYA RIVER BASIN

PHYSICAL DATA		CULTURAL DATA	
DRAINAGE AREA	1.13 SQ MI	RESIDENTIAL DEVELOPMENT	72 %
ALTITUDE	366. FT		
LAKE AREA	69. ACRES	NUMBER OF NEARSHORE HOMES	82
LAKE VOLUME	1300. ACRE-FT		
MEAN DEPTH	18. FT	LAND USE IN DRAINAGE BASIN	
MAXIMUM DEPTH	31. FT		
SHORELINE LENGTH	2.2 MI	RESIDENTIAL URBAN	0 %
SHORELINE CONFIGURATION	1.8	RESIDENTIAL SUBURBAN	12 %
DEVELOPMENT OF VOLUME	0.59	AGRICULTURAL	0 %
BOTTOM SLOPE	1.6 %	FOREST OR UNPRODUCTIVE	78 %
BASIN GEOLOGY	SED./META.	LAKE SURFACE	10 %
INFLOW	INTERMITTENT		
OUTFLOW CHANNEL	PRESENT	PUBLIC BOAT ACCESS TO LAKE	YES

WATER-QUALITY DATA (IN MG/L UNLESS OTHERWISE INDICATED)

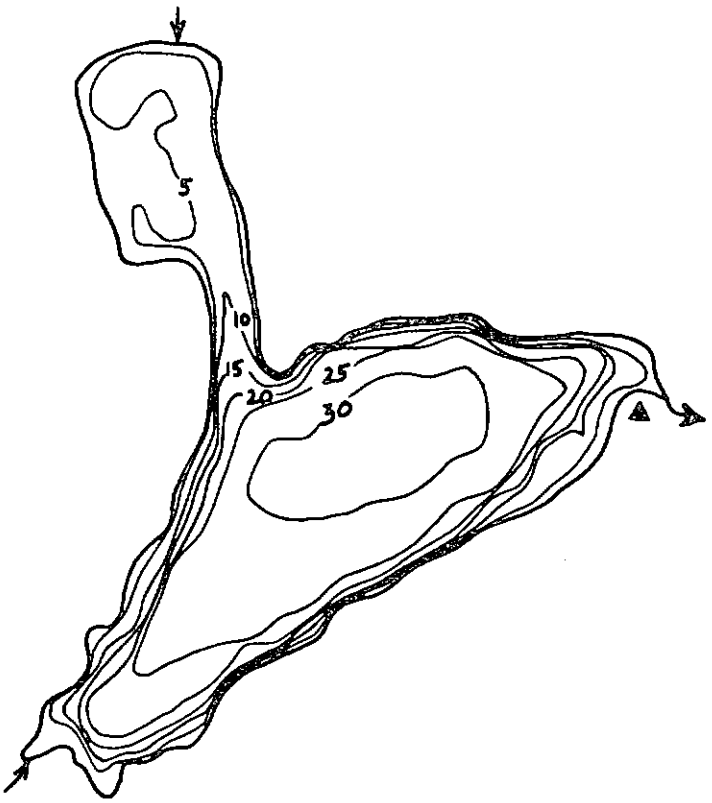
SAMPLE SITE	1	
DATE	8/26/74	
TIME	1100	1105
DEPTH (FT)	3.	23.
TOTAL NITRATE (N)	0.03	0.02
TOTAL NITRITE (N)	0.00	0.00
TOTAL AMMONIA (N)	0.11	0.11
TOTAL ORGANIC NITROGEN (N)	0.04	0.00
TOTAL PHOSPHORUS (P)	0.005	0.012
TOTAL ORTHOPHOSPHATE (P)	0.003	0.004
SPECIFIC CONDUCTANCE (MICROMHOS)	35	35
WATER TEMPERATURE (DEG C)	21.0	20.2
COLOR (PLATINUM-COBALT UNITS)	0	0
SECCHI-DISC VISIBILITY (FT)	18	
DISSOLVED OXYGEN	9.2	9.0

LAKE SHORELINE COVERED BY EMERSED PLANTS	1- 10 %
LAKE SURFACE COVERED BY EMERSED PLANTS	NONE OR <1 %

DATE	8/26/74
TIME	1030
NUMBER OF FECAL COLIFORM SAMPLES	4
FECAL COLIFORM, MINIMUM (COL./100ML)	<1
FECAL COLIFORM, MAXIMUM (COL./100ML)	3
FECAL COLIFORM, MEAN (COL./100ML)	1

REMARKS

THE LAKE IS FED FROM WOOTEN LAKE. SUBMERSED PLANTS COVERED THE NORTH BAY. THE DO WAS NEAR SATURATION THROUGHOUT THE WATER COLUMN. THE LITTORAL BOTTOM IS MOSTLY GRAVEL AND SUPPORTED VERY FEW EMERSED AQUATIC PLANTS



N

0 1000 2000 FEET

EXPLANATION

——10——

Line of equal
water depth
Interval 5 feet

Haven Lake, Mason County. From Washington Department of Game, July 20, 1948.

Haven Lake, Mason County. August 24, 1972. Approx. scale 1:12,000.

ISABELLA LAKE MASON COUNTY

LATITUDE 47*10'36" LONGITUDE 123* 6'17" T20N-R3W-31
PUGET SOUND BASIN

PHYSICAL DATA		CULTURAL DATA	
DRAINAGE AREA	17.5 SQ MI	RESIDENTIAL DEVELOPMENT	28 %
ALTITUDE	150. FT		
LAKE AREA	200. ACRES	NUMBER OF NEARSHORE HOMES	38
LAKE VOLUME	3200. ACRE-FT		
MEAN DEPTH	16. FT	LAND USE IN DRAINAGE BASIN	
MAXIMUM DEPTH	23. FT		
SHORELINE LENGTH	2.5 MI	RESIDENTIAL URBAN	0 %
SHORELINE CONFIGURATION	1.2	RESIDENTIAL SUBURBAN	1 %
DEVELOPMENT OF VOLUME	0.70	AGRICULTURAL	5 %
BOTTOM SLOPE	0.70 %	FOREST OR UNPRODUCTIVE	92 %
BASIN GEOLOGY	SED./META.	LAKE SURFACE	2 %
INFLOW	PERENNIAL		
OUTFLOW CHANNEL	PRESENT	PUBLIC BOAT ACCESS TO LAKE	YES

WATER-QUALITY DATA (IN MG/L UNLESS OTHERWISE INDICATED)

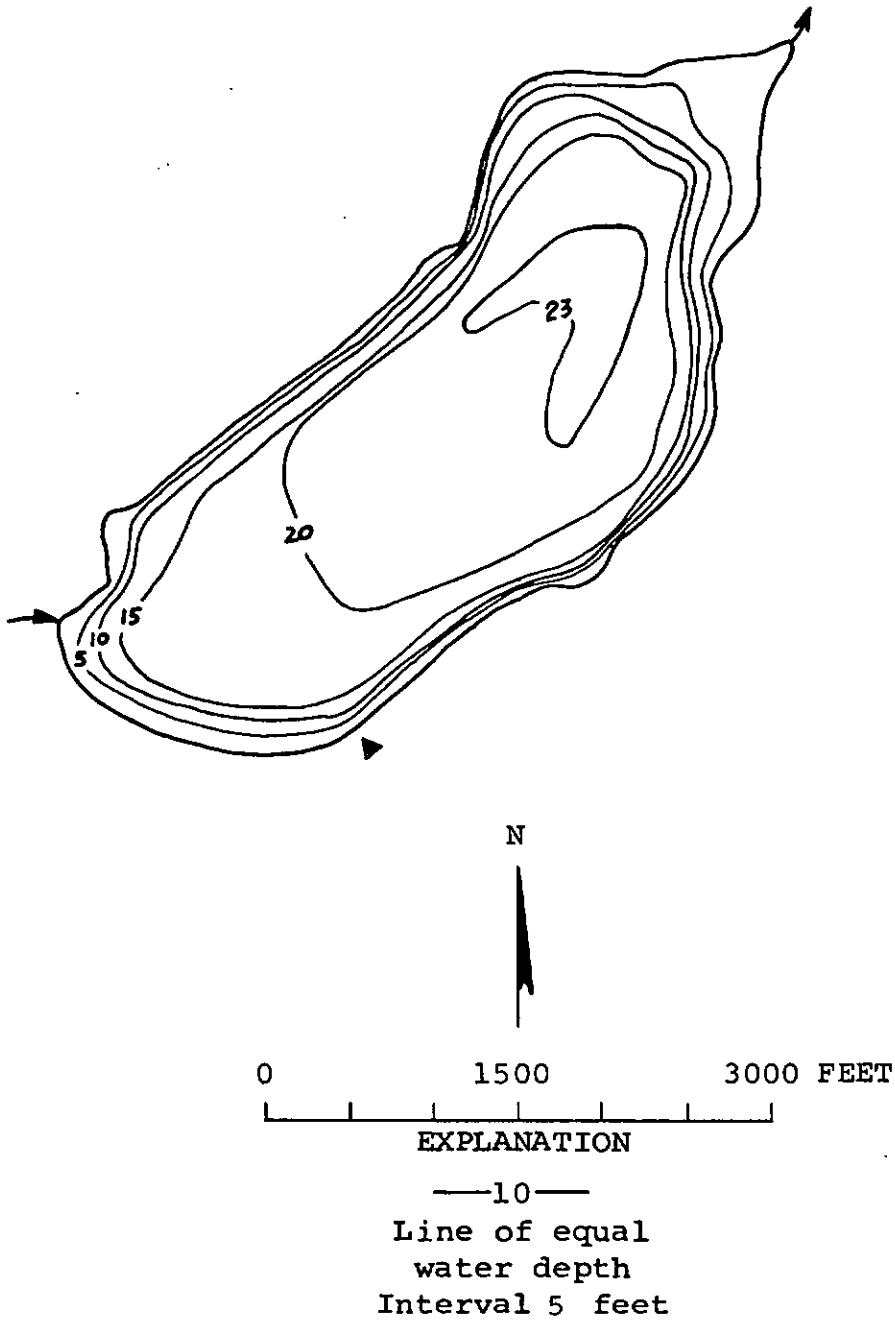
SAMPLE SITE	1	
DATE	6/21/73	
TIME	1410	1415
DEPTH (FT)	3.	17.
TOTAL NITRATE (N)	0.01	0.01
TOTAL NITRITE (N)	0.00	0.00
TOTAL AMMONIA (N)	0.08	0.09
TOTAL ORGANIC NITROGEN (N)	0.07	0.03
TOTAL PHOSPHORUS (P)	0.010	0.024
DISSOLVED ORTHOPHOSPHATE (P)	0.001	--
SPECIFIC CONDUCTANCE (MICROMHOS)	78	78
WATER TEMPERATURE (DEG C)	20.0	15.3
COLOR (PLATINUM-COBALT UNITS)	10	10
SECCHI-DISC VISIBILITY (FT)	10	
DISSOLVED OXYGEN	10.5	8.1

LAKE SHORELINE COVERED BY EMERSED PLANTS	76-100 %
LAKE SURFACE COVERED BY EMERSED PLANTS	1- 10 %

DATE	6/21/73
TIME	1430
NUMBER OF FECAL COLIFORM SAMPLES	4
FECAL COLIFORM, MINIMUM (COL./100ML)	<1
FECAL COLIFORM, MAXIMUM (COL./100ML)	2
FECAL COLIFORM, MEAN (COL./100ML)	<1

REMARKS

THE LAKE IS FED BY GOSNELL CREEK, A STREAM WHICH MEANDERS THROUGH SEVERAL MILES OF AGRICULTURAL LAND. THE SOUTHWEST AND NORTHEAST ENDS OF THE LAKE NEAR THE INFLOW AND OUTFLOW ARE MARSHY. DENSE BEDS OF EMERSED PLANTS EXTEND 200-300 FEET FROM SHORE NEAR THE MARSHES. SUBMERSED PLANTS (ELODEA AND PONDWEED) COVERED ABOUT 30 PERCENT OF THE LAKE BOTTOM. IN 1973 THE U.S. GEOLOGICAL SURVEY SAMPLED THE LAKE FOUR TIMES. THE PLANT SURVEY WAS MADE ON AUGUST 12, 1973.



Isabella Lake, Mason County. From Washington Department of Game, June 25, 1952.

Isabella Lake, Mason County. May 19, 1972. Approx. scale 1:12,000.

ISLAND LAKE MASON COUNTY

LATITUDE 47*14'44" LONGITUDE 123* 6'40" T20N-R3W-6
PUGET SOUND BASIN

PHYSICAL DATA		CULTURAL DATA	
DRAINAGE AREA	0.26 SQ MI	RESIDENTIAL DEVELOPMENT	100 %
ALTITUDE	230. FT		
LAKE AREA	110. ACRES	NUMBER OF NEARSHORE HOMES	85
LAKE VOLUME	2200. ACRE-FT		
MEAN DEPTH	21. FT	LAND USE IN DRAINAGE BASIN	
MAXIMUM DEPTH	31. FT		
SHORELINE LENGTH	1.7 MI	RESIDENTIAL URBAN	0 %
SHORELINE CONFIGURATION	1.2	RESIDENTIAL SUBURBAN	35 %
DEVELOPMENT OF VOLUME	0.67	AGRICULTURAL	0 %
BOTTOM SLOPE	1.3 %	FOREST OR UNPRODUCTIVE	0 %
BASIN GEOLOGY	SED./META.	LAKE SURFACE	65 %
INFLOW	NONE VISIBLE		
OUTFLOW CHANNEL	PRESENT	PUBLIC BOAT ACCESS TO LAKE	YES

WATER-QUALITY DATA (IN MG/L UNLESS OTHERWISE INDICATED)

SAMPLE SITE	1	
DATE	8/16/74	
TIME	1115	1120
DEPTH (FT)	3.	18.
TOTAL NITRATE (N)	0.01	0.01
TOTAL NITRITE (N)	0.00	0.00
TOTAL AMMONIA (N)	0.05	0.05
TOTAL ORGANIC NITROGEN (N)	0.41	0.40
TOTAL PHOSPHORUS (P)	0.011	0.010
TOTAL ORTHOPHOSPHATE (P)	0.003	0.003
SPECIFIC CONDUCTANCE (MICROMHOS)	40	40
WATER TEMPERATURE (DEG C)	20.8	20.0
COLOR (PLATINUM-COBALT UNITS)	0	0
SECCHI-DISC VISIBILITY (FT)	11	
DISSOLVED OXYGEN	8.9	8.3

LAKE SHORELINE COVERED BY EMERSED PLANTS	11- 25 %
LAKE SURFACE COVERED BY EMERSED PLANTS	NONE OR <1 %

DATE	8/16/74
TIME	1130
NUMBER OF FECAL COLIFORM SAMPLES	3
FECAL COLIFORM, MINIMUM (COL./100ML)	2
FECAL COLIFORM, MAXIMUM (COL./100ML)	3
FECAL COLIFORM, MEAN (COL./100ML)	2

REMARKS

A DENSE PATTERN OF RESIDENTIAL DEVELOPMENT SURROUNDS THE LAKE. THE LAKE HAS A STEEP-SIDED, GRAVELLY LITTORAL BOTTOM WHICH SUPPORTED A SPARSE GROWTH OF AQUATIC MACROPHYTES. THE DO WAS NEAR SATURATION THROUGHOUT THE WATER COLUMN.

N

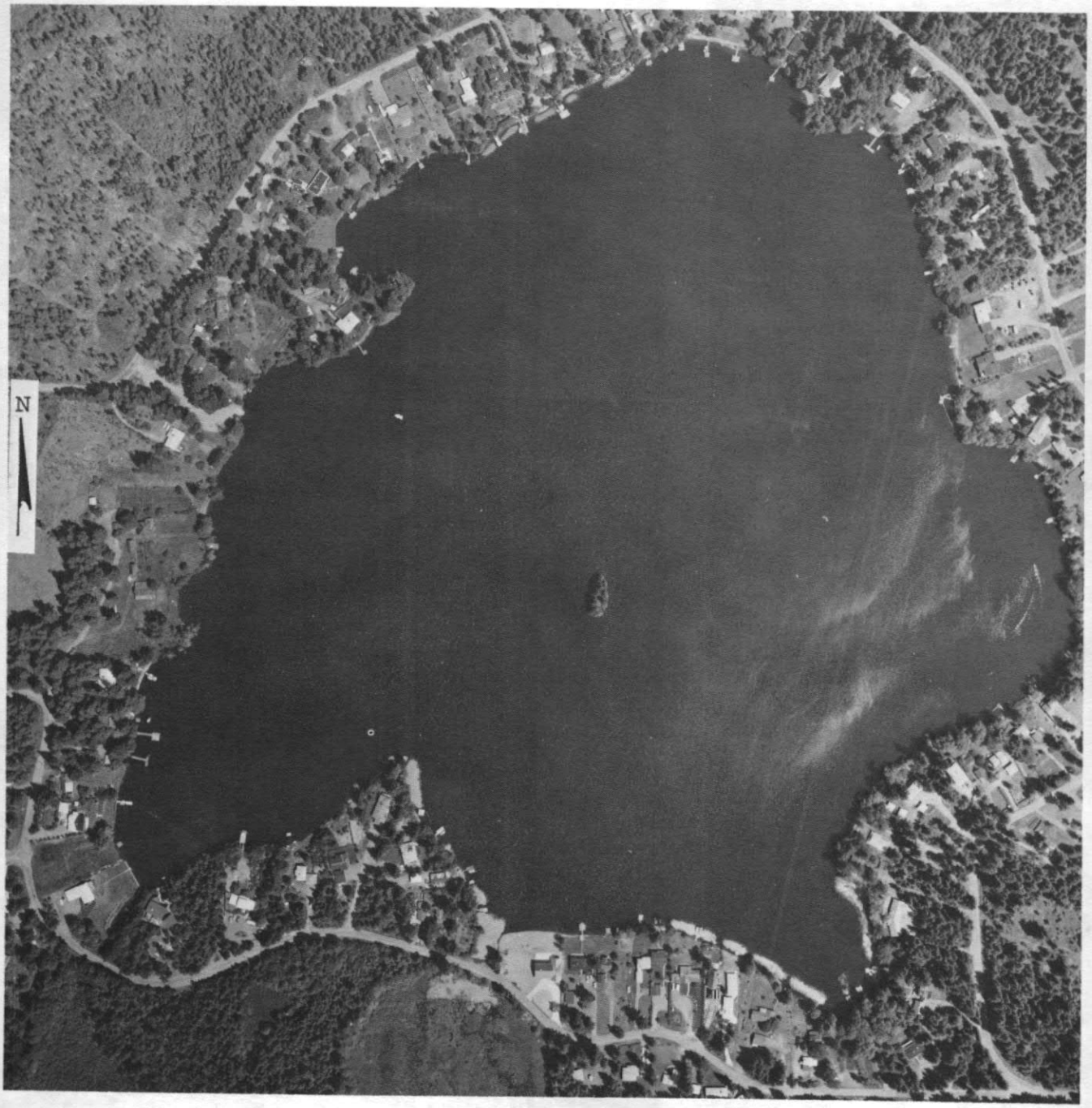
0 1000 2000 FEET

EXPLANATION

——10——

Line of equal
water depth
Interval 5 feet

Island Lake, Mason County. From Washington Department of Game, February 15, 1952.



Island Lake, Mason County. July 13, 1974. Approx. scale 1:4800.

LIMERICK LAKE MASON COUNTY

LATITUDE 47*16'59" LONGITUDE 123* 2'51" T21N-R3W-27
PUGET SOUND BASIN

PHYSICAL DATA		CULTURAL DATA	
DRAINAGE AREA	13.0 SQ MI	RESIDENTIAL DEVELOPMENT	31 %
ALTITUDE	230. FT		
LAKE AREA	130. ACRES	NUMBER OF NEARSHORE HOMES	24
LAKE VOLUME	1200. ACRE-FT		
MEAN DEPTH	9. FT	LAND USE IN DRAINAGE BASIN	
MAXIMUM DEPTH	24. FT		
SHORELINE LENGTH	4.4 MI	RESIDENTIAL URBAN	0 %
SHORELINE CONFIGURATION	2.8	RESIDENTIAL SUBURBAN	1 %
DEVELOPMENT OF VOLUME	0.39	AGRICULTURAL	0 %
BOTTOM SLOPE	0.90 %	FOREST OR UNPRODUCTIVE	95 %
BASIN GEOLOGY	SED./META.	LAKE SURFACE	4 %
INFLOW	NONE VISIBLE		
OUTFLOW CHANNEL	PRESENT	PUBLIC BOAT ACCESS TO LAKE	YES

WATER-QUALITY DATA (IN MG/L UNLESS OTHERWISE INDICATED)

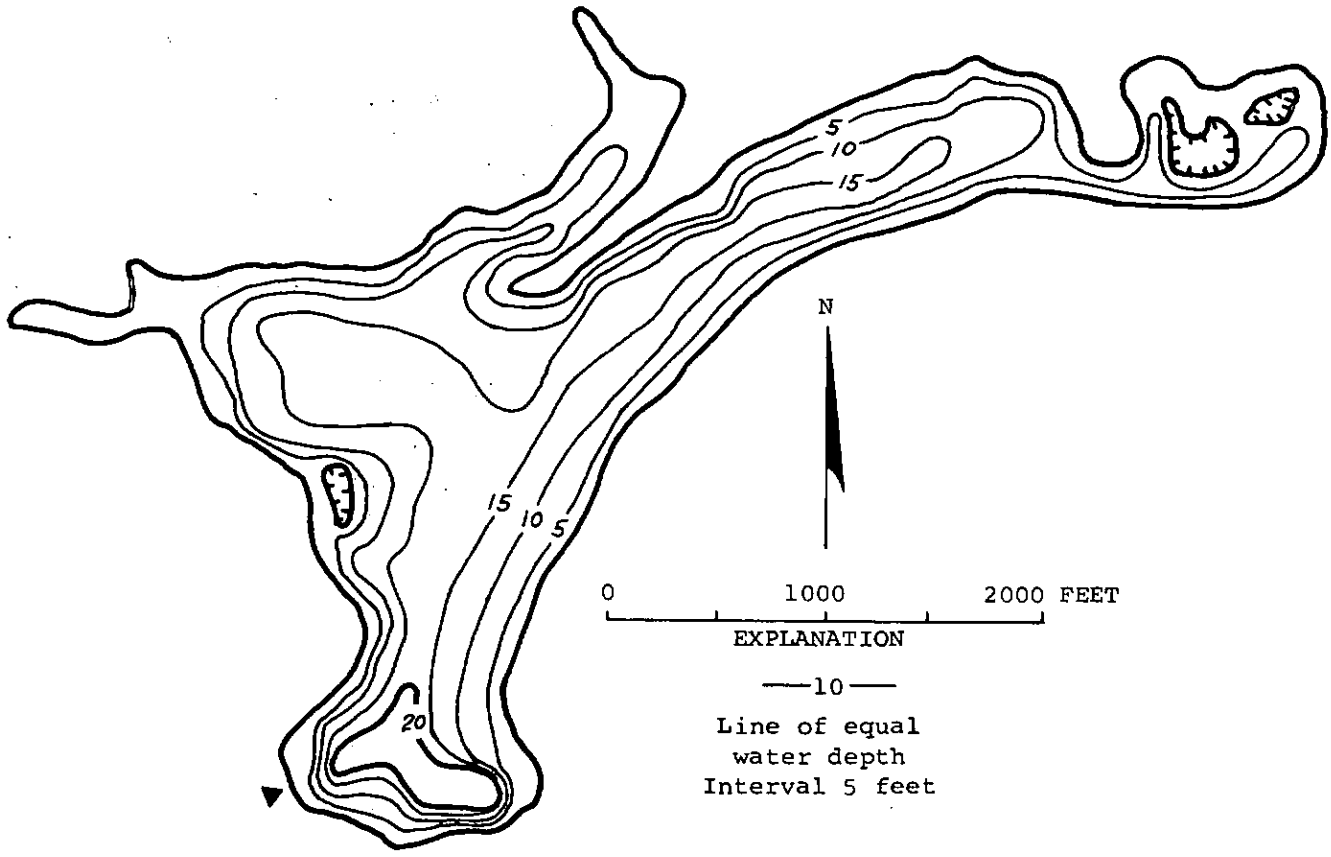
SAMPLE SITE	1	
DATE	8/16/74	
TIME	1300	1305
DEPTH (FT)	3.	11.
TOTAL NITRATE (N)	0.02	0.01
TOTAL NITRITE (N)	0.00	0.00
TOTAL AMMONIA (N)	0.05	0.06
TOTAL ORGANIC NITROGEN (N)	0.45	0.49
TOTAL PHOSPHORUS (P)	0.008	0.011
TOTAL ORTHOPHOSPHATE (P)	0.004	0.003
SPECIFIC CONDUCTANCE (MICROMHOS)	55	55
WATER TEMPERATURE (DEG C)	20.3	19.1
COLOR (PLATINUM-COBALT UNITS)	20	15
SECCHI-DISC VISIBILITY (FT)	11	
DISSOLVED OXYGEN	8.2	7.3

LAKE SHORELINE COVERED BY EMERSED PLANTS	11- 25 %
LAKE SURFACE COVERED BY EMERSED PLANTS	NONE OR <1 %

DATE	8/16/74
TIME	1315
NUMBER OF FECAL COLIFORM SAMPLES	4
FECAL COLIFORM, MINIMUM (COL./100ML)	5
FECAL COLIFORM, MAXIMUM (COL./100ML)	9
FECAL COLIFORM, MEAN (COL./100ML)	8

REMARKS

AN ARTIFICIAL LAKE FED FROM CRANBERRY LAKE. THE SHORE AND UPLAND ARE DEVELOPED FOR RESIDENTIAL AND RECREATIONAL PURPOSES. EMERSED PLANTS WERE THINLY SCATTERED ALONG THE GRAVELLY BEACHES. SUBMERSED PLANTS OCCURRED IN BOTH THINLY SCATTERED AND DENSE PATCHES.



Limerick Lake, Mason County. From
U.S. Geological Survey, December 4, 1973.

Limerick Lake, Mason County. May 12, 1972. Approx. scale 1:12,000.

LOST LAKE MASON COUNTY

LATITUDE 47° 9'16" LONGITUDE 123°14'51" T19N-R5W-1
PUGET SOUND BASIN

PHYSICAL DATA		CULTURAL DATA	
DRAINAGE AREA	1.08 SQ MI	RESIDENTIAL DEVELOPMENT	95 %
ALTITUDE	480. FT		
LAKE AREA	120. ACRES	NUMBER OF NEARSHORE HOMES	114
LAKE VOLUME	3400. ACRE-FT		
MEAN DEPTH	28. FT	LAND USE IN DRAINAGE BASIN	
MAXIMUM DEPTH	65. FT		
SHORELINE LENGTH	3.2 MI	RESIDENTIAL URBAN	0 %
SHORELINE CONFIGURATION	2.1	RESIDENTIAL SUBURBAN	12 %
DEVELOPMENT OF VOLUME	0.42	AGRICULTURAL	0 %
BOTTOM SLOPE	2.5 %	FOREST OR UNPRODUCTIVE	70 %
BASIN GEOLOGY	SED./META.	LAKE SURFACE	18 %
INFLOW	NONE VISIBLE		
OUTFLOW CHANNEL	ABSENT	PUBLIC BOAT ACCESS TO LAKE	YES

WATER-QUALITY DATA (IN MG/L UNLESS OTHERWISE INDICATED)

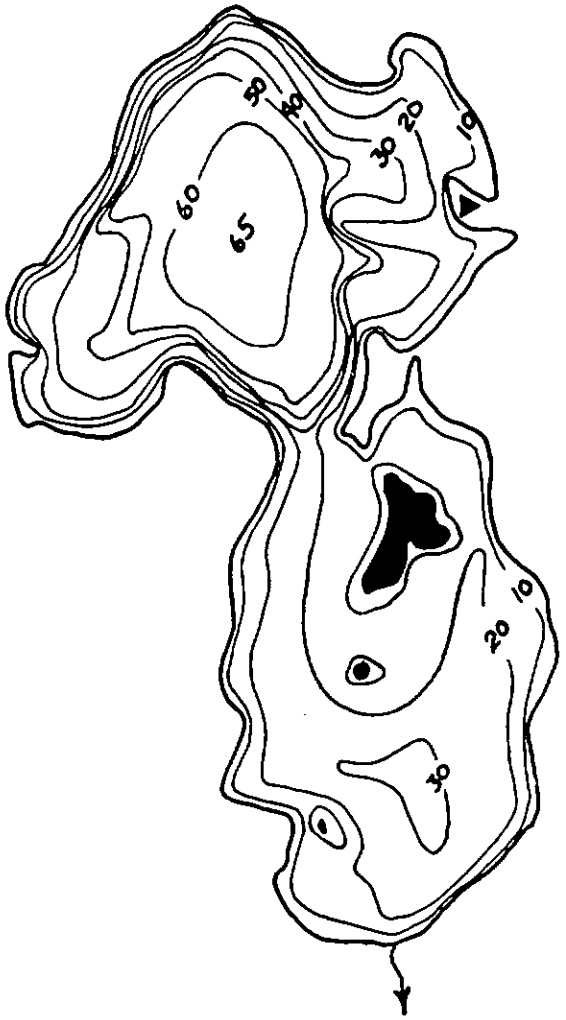
SAMPLE SITE	1	
DATE	6/21/73	
TIME	1135	1145
DEPTH (FT)	3.	52.
TOTAL NITRATE (N)	0.01	0.01
TOTAL NITRITE (N)	0.00	0.00
TOTAL AMMONIA (N)	0.05	0.01
TOTAL ORGANIC NITROGEN (N)	0.06	0.12
TOTAL PHOSPHORUS (P)	0.016	0.004
DISSOLVED ORTHOPHOSPHATE (P)	0.001	0.000
SPECIFIC CONDUCTANCE (MICROMHOS)	21	22
WATER TEMPERATURE (DEG C)	19.1	6.0
COLOR (PLATINUM-COBALT UNITS)	5	10
SECCHI-DISC VISIBILITY (FT)	21	
DISSOLVED OXYGEN	9.1	4.4

LAKE SHORELINE COVERED BY EMERSED PLANTS	LITTLE OR NONE
LAKE SURFACE COVERED BY EMERSED PLANTS	NONE OR <1 %

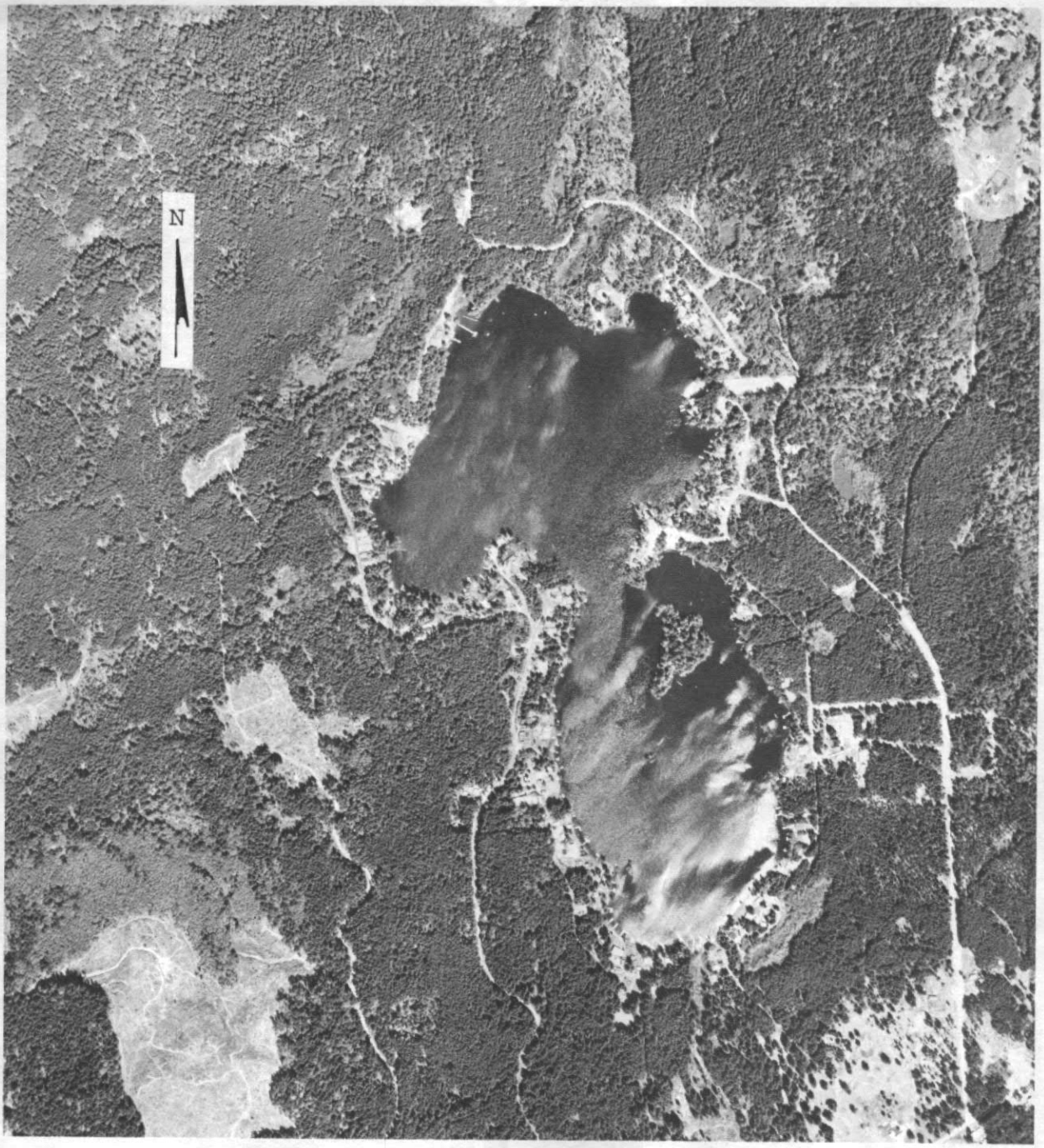
DATE	6/21/73
TIME	1200
NUMBER OF FECAL COLIFORM SAMPLES	4
FECAL COLIFORM, MINIMUM (COL./100ML)	<1
FECAL COLIFORM, MAXIMUM (COL./100ML)	2
FECAL COLIFORM, MEAN (COL./100ML)	<1

REMARKS

THE LAKE RECEIVES HEAVY RECREATIONAL USE. NO AQUATIC MACROPHYTES WERE OBSERVED. THE LITTORAL BOTTOM IS GRAVEL, COBBLE AND SAND. DO WAS NEAR SATURATION THROUGHOUT THE WATER COLUMN EXCEPT FOR FOUR FEET OF WATER NEAR THE LAKE BOTTOM. IN 1973 THE U.S. GEOLOGICAL SURVEY SAMPLED THE LAKE FOUR TIMES. THE PLANT SURVEY WAS MADE ON AUGUST 12, 1973.



Lost Lake, Mason County. From Washington Department of Game, February 12, 1952.



Lost Lake, Mason County. May 19, 1972. Approx. scale 1:12,000.

LYSTAIR LAKE MASON COUNTY

LATITUDE 47* 9' 7" LONGITUDE 123*19'50" T19N-R5W-8
CHEHALIS RIVER BASIN

PHYSICAL DATA		CULTURAL DATA	
DRAINAGE AREA	0.24 SQ MI	RESIDENTIAL DEVELOPMENT	29 %
ALTITUDE	350. FT		
LAKE AREA	46. ACRES	NUMBER OF NEARSHORE HOMES	19
LAKE VOLUME	230. ACRE-FT		
MEAN DEPTH	5. FT	LAND USE IN DRAINAGE BASIN	
MAXIMUM DEPTH	9. FT		
SHORELINE LENGTH	2.1 MI	RESIDENTIAL URBAN	0 %
SHORELINE CONFIGURATION	2.2	RESIDENTIAL SUBURBAN	7 %
DEVELOPMENT OF VOLUME	0.56	AGRICULTURAL	7 %
BOTTOM SLOPE	0.56 %	FOREST OR UNPRODUCTIVE	56 %
BASIN GEOLOGY	SED./META.	LAKE SURFACE	30 %
INFLOW	NONE VISIBLE		
OUTFLOW CHANNEL	PRESENT	PUBLIC BOAT ACCESS TO LAKE	--

WATER-QUALITY DATA (IN MG/L UNLESS OTHERWISE INDICATED)

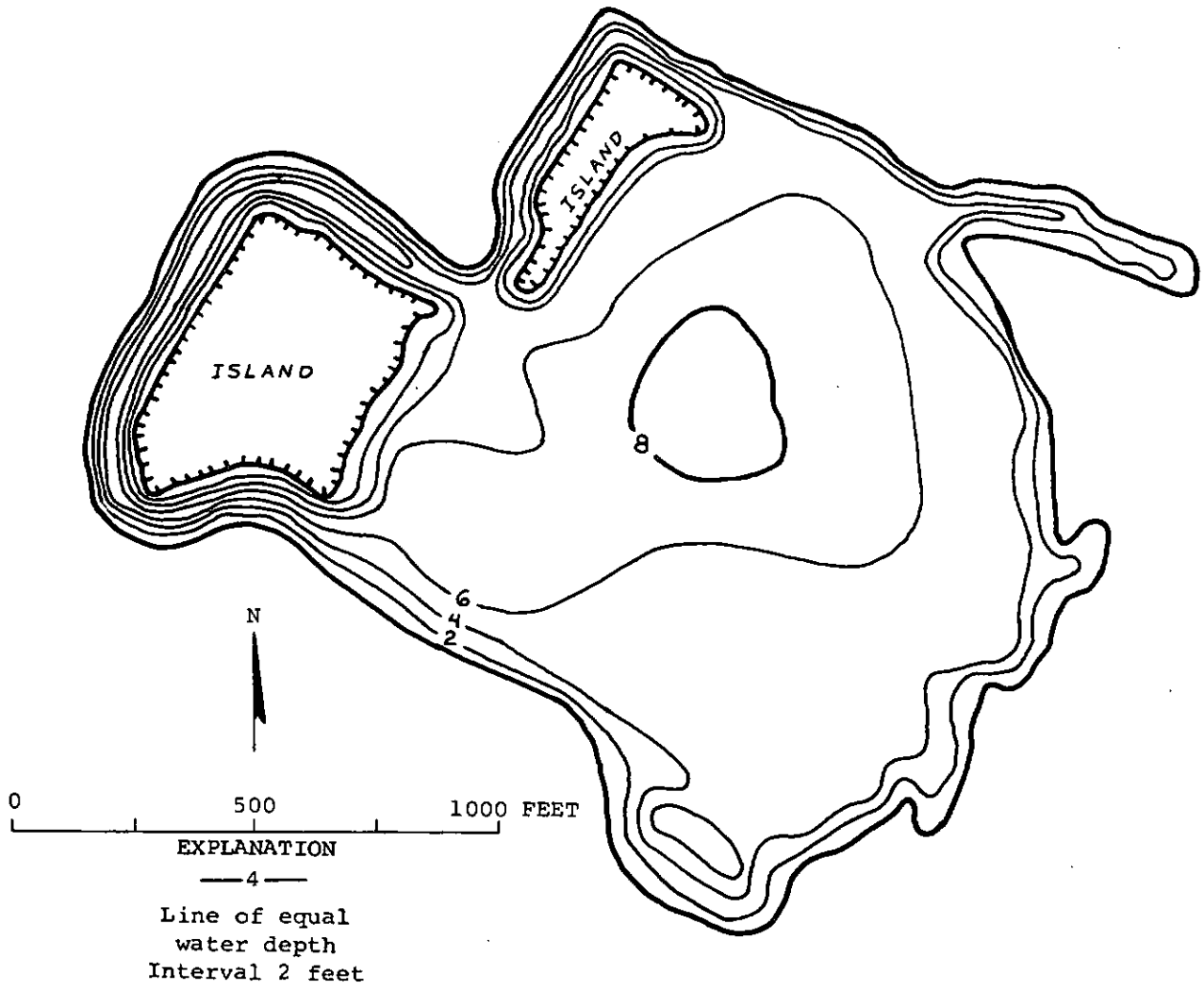
SAMPLE SITE	1	
DATE	8/15/74	
TIME	1245	1250
DEPTH (FT)	3.	5.
TOTAL NITRATE (N)	0.01	0.01
TOTAL NITRITE (N)	0.00	0.00
TOTAL AMMONIA (N)	0.10	0.10
TOTAL ORGANIC NITROGEN (N)	0.41	0.40
TOTAL PHOSPHORUS (P)	0.012	0.013
TOTAL ORTHOPHOSPHATE (P)	0.004	0.004
SPECIFIC CONDUCTANCE (MICROMHOS)	33	33
WATER TEMPERATURE (DEG C)	19.1	18.8
COLOR (PLATINUM-COBALT UNITS)	15	15
SECCHI-DISC VISIBILITY (FT)	6	
DISSOLVED OXYGEN	8.8	8.8

LAKE SHORELINE COVERED BY EMERSED PLANTS	76-100 %
LAKE SURFACE COVERED BY EMERSED PLANTS	11- 25 %

DATE	8/15/74
TIME	1300
NUMBER OF FECAL COLIFORM SAMPLES	3
FECAL COLIFORM, MINIMUM (COL./100ML)	<1
FECAL COLIFORM, MAXIMUM (COL./100ML)	3
FECAL COLIFORM, MEAN (COL./100ML)	1

REMARKS

A VERY SHALLOW LAKE WITH TWO BOG MAT ISLANDS. EMERSED PLANTS COVERED THE SHORELINE AND A LARGE PERCENTAGE OF THE LAKE SURFACE. PARK FACILITIES AND A GOLF COURSE ARE LOCATED ON THE SOUTHERN END OF THE LAKE.



Lystair Lake, Mason County. From
U.S. Geological Survey, December 28, 1973.

Lystair Lake, Mason County. June 30, 1974. Approx. scale 1:4800.

MAGGIE LAKE MASON COUNTY

LATITUDE 47*24' 0" LONGITUDE 123* 1'40" T22N-R3W-14
TAHUYA RIVER BASIN

PHYSICAL DATA		CULTURAL DATA	
DRAINAGE AREA	0.24 SQ MI	RESIDENTIAL DEVELOPMENT	52 %
ALTITUDE	400. FT		
LAKE AREA	25. ACRES	NUMBER OF NEARSHORE HOMES	31
LAKE VOLUME	820. ACRE-FT		
MEAN DEPTH	33. FT	LAND USE IN DRAINAGE BASIN	
MAXIMUM DEPTH	74. FT		
SHORELINE LENGTH	1.1 MI	RESIDENTIAL URBAN	0 %
SHORELINE CONFIGURATION	1.5	RESIDENTIAL SUBURBAN	27 %
DEVELOPMENT OF VOLUME	0.44	AGRICULTURAL	0 %
BOTTOM SLOPE	6.3 %	FOREST OR UNPRODUCTIVE	46 %
BASIN GEOLOGY	SED./META.	LAKE SURFACE	27 %
INFLOW	NONE VISIBLE		
OUTFLOW CHANNEL	ABSENT	PUBLIC BOAT ACCESS TO LAKE	YES

WATER-QUALITY DATA (IN MG/L UNLESS OTHERWISE INDICATED)

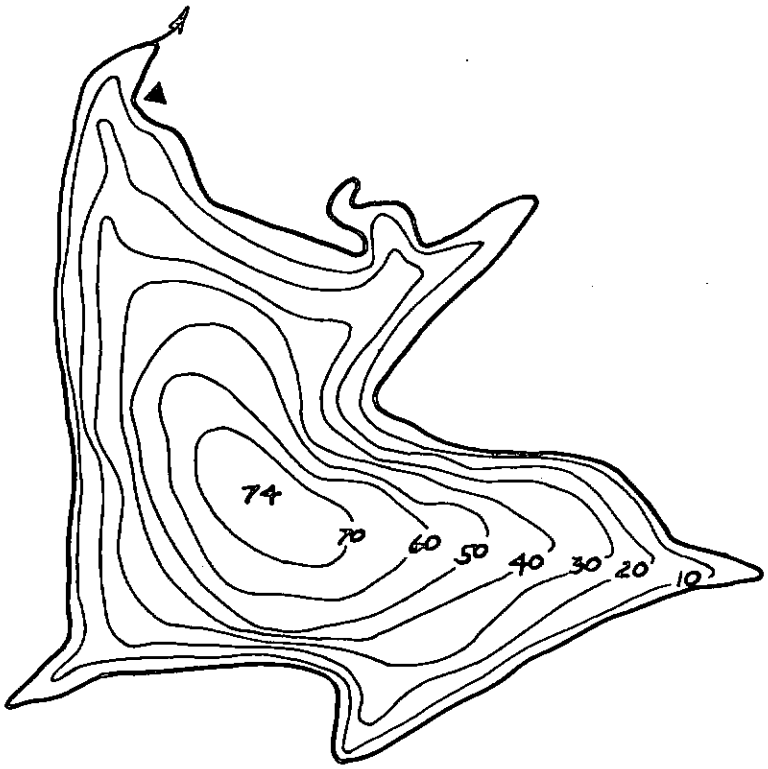
SAMPLE SITE	1	
DATE	8/26/74	
TIME	1400	1405
DEPTH (FT)	3.	59.
TOTAL NITRATE (N)	0.00	0.00
TOTAL NITRITE (N)	0.00	0.00
TOTAL AMMONIA (N)	0.05	0.04
TOTAL ORGANIC NITROGEN (N)	0.04	--
TOTAL PHOSPHORUS (P)	0.007	0.008
TOTAL ORTHOPHOSPHATE (P)	0.003	0.005
SPECIFIC CONDUCTANCE (MICROMHOS)	17	19
WATER TEMPERATURE (DEG C)	21.0	7.0
COLOR (PLATINUM-COBALT UNITS)	0	0
SECCHI-DISC VISIBILITY (FT)	25	
DISSOLVED OXYGEN	8.9	8.6

LAKE SHORELINE COVERED BY EMERSED PLANTS	LITTLE OR NONE
LAKE SURFACE COVERED BY EMERSED PLANTS	NONE OR <1 %

DATE	8/26/74
TIME	1330
NUMBER OF FECAL COLIFORM SAMPLES	4
FECAL COLIFORM, MINIMUM (COL./100ML)	<1
FECAL COLIFORM, MAXIMUM (COL./100ML)	5
FECAL COLIFORM, MEAN (COL./100ML)	2

REMARKS

A DEEP LAKE IN RELATION TO THE SURFACE AREA. THE WATER CLARITY IS HIGH AS INDICATED BY A SECCHI-DISC READING OF 25 FEET. THE DO WAS NEAR SATURATION THROUGHOUT THE WATER COLUMN. VERY FEW AQUATIC MACROPHYTES WERE GROWING ON THE GRAVELLY LITTORAL BOTTOM. HOWEVER, MOSS WAS FOUND GROWING ON THE LAKE BOTTOM AT A DEPTH OF 64 FEET.



N

0 500 1000 FEET

EXPLANATION

—20—

Line of equal
water depth
Interval 10 feet

Maggie Lake, Mason County. From Washington Department of Game, June 11, 1950.

Maggie Lake, Mason County. July 13, 1974. Approx. scale 1:4800.

MASON LAKE MASON COUNTY

LATITUDE 47°21'14" LONGITUDE 122°55'17" T22N-R2W-34
PUGET SOUND BASIN

PHYSICAL DATA		CULTURAL DATA	
DRAINAGE AREA	20.2 SQ MI	RESIDENTIAL DEVELOPMENT	87 %
ALTITUDE	194. FT		
LAKE AREA	1000. ACRES	NUMBER OF NEARSHORE HOMES	571
LAKE VOLUME	49000. ACRE-FT		
MEAN DEPTH	48. FT	LAND USE IN DRAINAGE BASIN	
MAXIMUM DEPTH	90. FT		
SHORELINE LENGTH	11. MI	RESIDENTIAL URBAN	0 %
SHORELINE CONFIGURATION	2.4	RESIDENTIAL SUBURBAN	3 %
DEVELOPMENT OF VOLUME	0.53	AGRICULTURAL	0 %
BOTTOM SLOPE	1.2 %	FOREST OR UNPRODUCTIVE	89 %
BASIN GEOLOGY	SED./META.	LAKE SURFACE	8 %
INFLOW	PERENNIAL		
OUTFLOW CHANNEL	PRESENT	PUBLIC BOAT ACCESS TO LAKE	YES

WATER-QUALITY DATA (IN MG/L UNLESS OTHERWISE INDICATED)

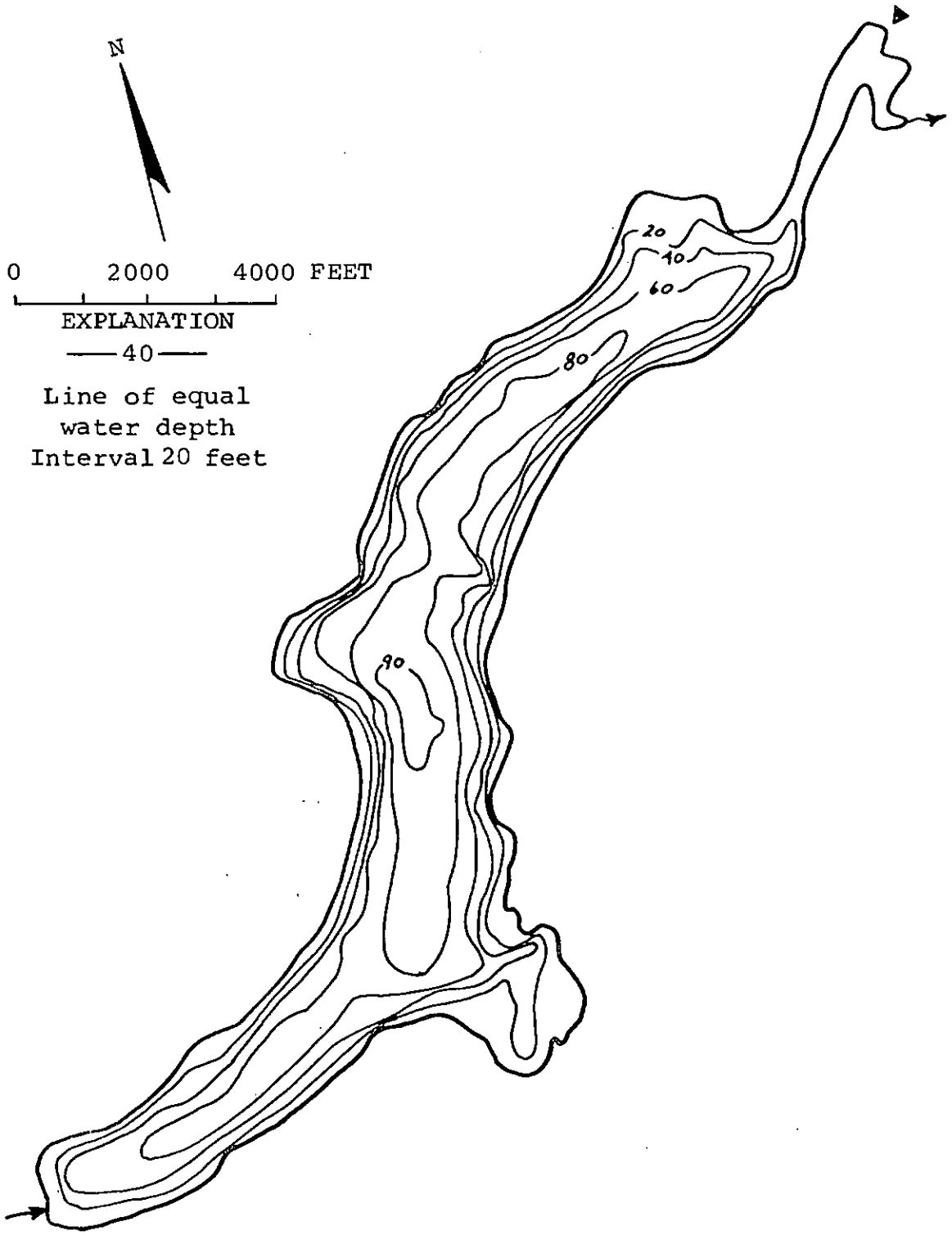
SAMPLE SITE	1	
DATE	6/29/72	
TIME	1010	1020
DEPTH (FT)	3.	75.
DISSOLVED NITRATE (N)	0.00	0.00
DISSOLVED NITRITE (N)	0.00	0.00
TOTAL AMMONIA (N)	0.00	0.00
TOTAL ORGANIC NITROGEN (N)	0.19	0.14
TOTAL PHOSPHORUS (P)	0.012	0.014
DISSOLVED ORTHOPHOSPHATE (P)	0.000	0.000
SPECIFIC CONDUCTANCE (MICROMHOS)	42	42
WATER TEMPERATURE (DEG C)	17.1	9.5
COLOR (PLATINUM-COBALT UNITS)	15	15
SECCHI-DISC VISIBILITY (FT)	14	
DISSOLVED OXYGEN	9.9	6.5

LAKE SHORELINE COVERED BY EMERSED PLANTS	1- 10 %
LAKE SURFACE COVERED BY EMERSED PLANTS	NONE OR <1 %

DATE	6/29/72
TIME	1030
NUMBER OF FECAL COLIFORM SAMPLES	5
FECAL COLIFORM, MINIMUM (COL./100ML)	<1
FECAL COLIFORM, MAXIMUM (COL./100ML)	2
FECAL COLIFORM, MEAN (COL./100ML)	1

REMARKS

THE LARGEST AND DEEPEST NATURAL LAKE IN MASON COUNTY. THE LAKE IS FED BY SHUMOCHER CREEK, A PERENNIAL STREAM. A LARGE PARK, RECREATIONAL FACILITIES, AND TWO MARINAS ARE LOCATED ON THE LAKE. MOST OF THE AQUATIC MACROPHYTES WERE OBSERVED IN THE NARROW ARM ON THE NORTH END OF THE LAKE. THE DO WAS DEPLETED ONLY SLIGHTLY IN THE HYPOLIMNION. THE U.S. GEOLOGICAL SURVEY HAS MAINTAINED A LAKE-STAGE RECORDER ON THE LAKE SINCE 1951. IN 1972 THE U.S. GEOLOGICAL SURVEY SAMPLED THE LAKE FOUR TIMES. THE PLANT SURVEY WAS MADE ON OCTOBER 5, 1972.



Mason Lake, Mason County. From Washington Department of Game, May 4, 1954.

Mason Lake, Mason County. August 9, 1972. Approx. scale 1:29,000.

MELBOURNE LAKE MASON COUNTY

LATITUDE 47*29'55" LONGITUDE 123* 7'19" T23N-R4W-7
SKOKOMISH RIVER BASIN

PHYSICAL DATA		CULTURAL DATA	
DRAINAGE AREA	2.17 SQ MI	RESIDENTIAL DEVELOPMENT	0 %
ALTITUDE	730. FT		
LAKE AREA	35. ACRES	NUMBER OF NEARSHORE HOMES	0
LAKE VOLUME	240. ACRE-FT		
MEAN DEPTH	7. FT	LAND USE IN DRAINAGE BASIN	
MAXIMUM DEPTH	12. FT		
SHORELINE LENGTH	1.3 MI	RESIDENTIAL URBAN	0 %
SHORELINE CONFIGURATION	1.6	RESIDENTIAL SUBURBAN	0 %
DEVELOPMENT OF VOLUME	0.56	AGRICULTURAL	0 %
BOTTOM SLOPE	0.86 %	FOREST OR UNPRODUCTIVE	97 %
BASIN GEOLOGY	IGNEOUS	LAKE SURFACE	3 %
INFLOW	PERENNIAL		
OUTFLOW CHANNEL	PRESENT	PUBLIC BOAT ACCESS TO LAKE	YES

WATER-QUALITY DATA (IN MG/L UNLESS OTHERWISE INDICATED)

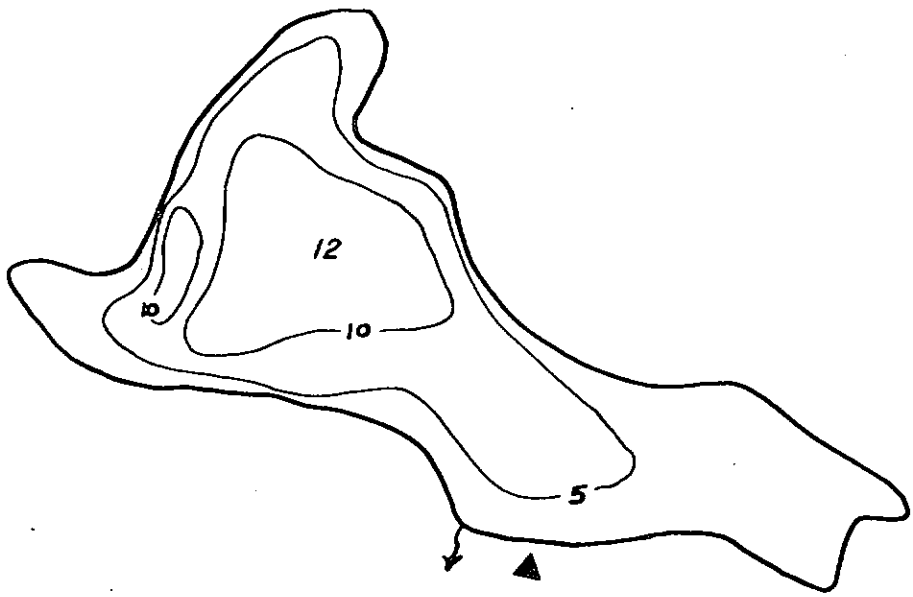
SAMPLE SITE	1	
DATE	8/21/74	
TIME	1450	1455
DEPTH (FT)	3.	7.
TOTAL NITRATE (N)	0.02	0.02
TOTAL NITRITE (N)	0.00	0.00
TOTAL AMMONIA (N)	0.05	0.05
TOTAL ORGANIC NITROGEN (N)	0.50	0.59
TOTAL PHOSPHORUS (P)	0.010	0.011
TOTAL ORTHOPHOSPHATE (P)	0.004	0.004
SPECIFIC CONDUCTANCE (MICROMHOS)	19	19
WATER TEMPERATURE (DEG C)	19.6	19.3
COLOR (PLATINUM-COBALT UNITS)	5	5
SECCHI-DISC VISIBILITY (FT)	> 8	
DISSOLVED OXYGEN	8.5	8.9

LAKE SHORELINE COVERED BY EMERSED PLANTS	76-100 %
LAKE SURFACE COVERED BY EMERSED PLANTS	51- 75 %

DATE	8/21/74
TIME	1500
NUMBER OF FECAL COLIFORM SAMPLES	3
FECAL COLIFORM, MINIMUM (COL./100ML)	<1
FECAL COLIFORM, MAXIMUM (COL./100ML)	4
FECAL COLIFORM, MEAN (COL./100ML)	3

REMARKS

A SHALLOW LAKE CHOKED WITH EMERSED AND SUBMERSED AQUATIC VEGETATION. MOST OF THE LAKE BOTTOM WAS COVERED WITH EMERSED PLANTS (PONDWEED). THE LITTORAL BOTTOM IS MUCK AND LITTERED WITH LOGS AND WOOD DEBRIS. THE LAKE WAS USED AT ONE TIME AS A REARING POND FOR SILVER SALMON BY THE DEPARTMENT OF FISHERIES.



N

0 500 1000 FEET

EXPLANATION

—10—
Line of equal
water depth
Interval 5 feet

Melbourne Lake, Mason County. From Washington Department of Game, May 4, 1954.

Melbourne Lake, Mason County. August 25, 1972. Approx. scale 1:12,000.

NAHWATZEL LAKE MASON COUNTY

LATITUDE 47°14' 8" LONGITUDE 123°20' 8" T20N-R5W-8
CHEHALIS RIVER BASIN

PHYSICAL DATA		CULTURAL DATA	
DRAINAGE AREA	6.20 SQ MI	RESIDENTIAL DEVELOPMENT	51 %
ALTITUDE	440. FT		
LAKE AREA	270. ACRES	NUMBER OF NEARSHORE HOMES	86
LAKE VOLUME	4600. ACRE-FT		
MEAN DEPTH	17. FT	LAND USE IN DRAINAGE BASIN	
MAXIMUM DEPTH	25. FT		
SHORELINE LENGTH	2.9 MI	RESIDENTIAL URBAN	0 %
SHORELINE CONFIGURATION	1.3	RESIDENTIAL SUBURBAN	2 %
DEVELOPMENT OF VOLUME	0.69	AGRICULTURAL	0 %
BOTTOM SLOPE	0.65 %	FOREST OR UNPRODUCTIVE	91 %
BASIN GEOLOGY	SED./META.	LAKE SURFACE	7 %
INFLOW	PERENNIAL		
OUTFLOW CHANNEL	PRESENT	PUBLIC BOAT ACCESS TO LAKE	YES

WATER-QUALITY DATA (IN MG/L UNLESS OTHERWISE INDICATED)

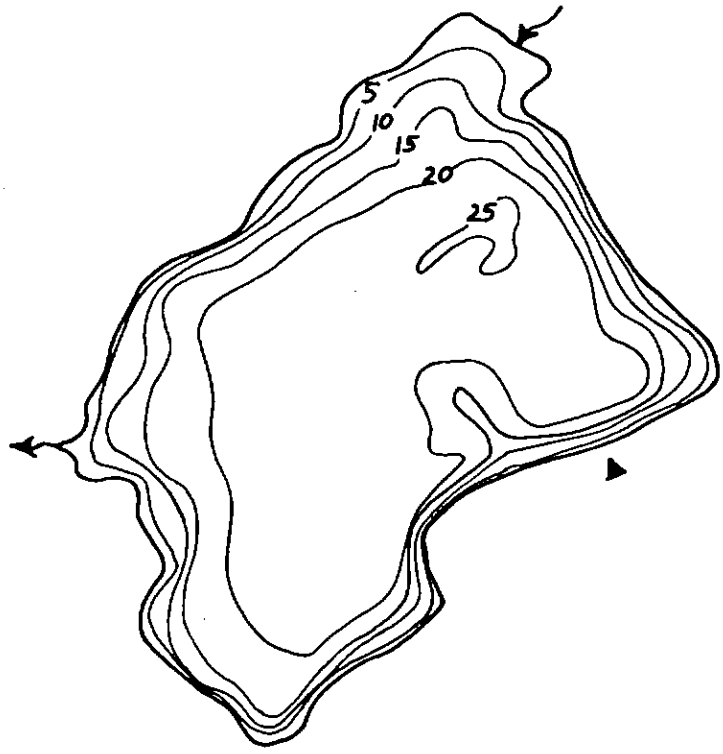
SAMPLE SITE	1	
DATE	8/15/74	
TIME	1155	1200
DEPTH (FT)	3.	20.
TOTAL NITRATE (N)	0.01	0.01
TOTAL NITRITE (N)	0.00	0.00
TOTAL AMMONIA (N)	0.05	0.05
TOTAL ORGANIC NITROGEN (N)	0.24	0.19
TOTAL PHOSPHORUS (P)	0.007	0.007
TOTAL ORTHOPHOSPHATE (P)	0.002	0.002
SPECIFIC CONDUCTANCE (MICROMHOS)	21	21
WATER TEMPERATURE (DEG C)	19.8	19.3
COLOR (PLATINUM-COBALT UNITS)	0	0
SECCHI-DISC VISIBILITY (FT)	18	
DISSOLVED OXYGEN	8.7	8.6

LAKE SHORELINE COVERED BY EMERSED PLANTS	26- 50 %
LAKE SURFACE COVERED BY EMERSED PLANTS	NONE OR <1 %

DATE	8/15/74
TIME	1210
NUMBER OF FECAL COLIFORM SAMPLES	4
FECAL COLIFORM, MINIMUM (COL./100ML)	<1
FECAL COLIFORM, MAXIMUM (COL./100ML)	<1
FECAL COLIFORM, MEAN (COL./100ML)	<1

REMARKS

A LARGE NATURAL LAKE WITH A PARTIALLY UNDEVELOPED SHORELINE. THE LITTORAL ZONE IS MOSTLY GRAVEL AND SUPPORTED A SPARSE GROWTH OF EMERSED PLANTS. SUBMERSED PLANTS (CHARA) WERE GROWING IN DEEP WATER AS INDICATED BY PLANTS ATTACHED TO THE ANCHOR AT A DEPTH OF 24 FEET. THE DO WAS NEAR SATURATION THROUGHOUT THE WATER COLUMN. LOG PILINGS STAND AT THE NORTHEAST END OF THE LAKE. FLOATING AND SUBMERGED LOGS WERE OBSERVED ALONG THE NORTHWEST SHORE.



N

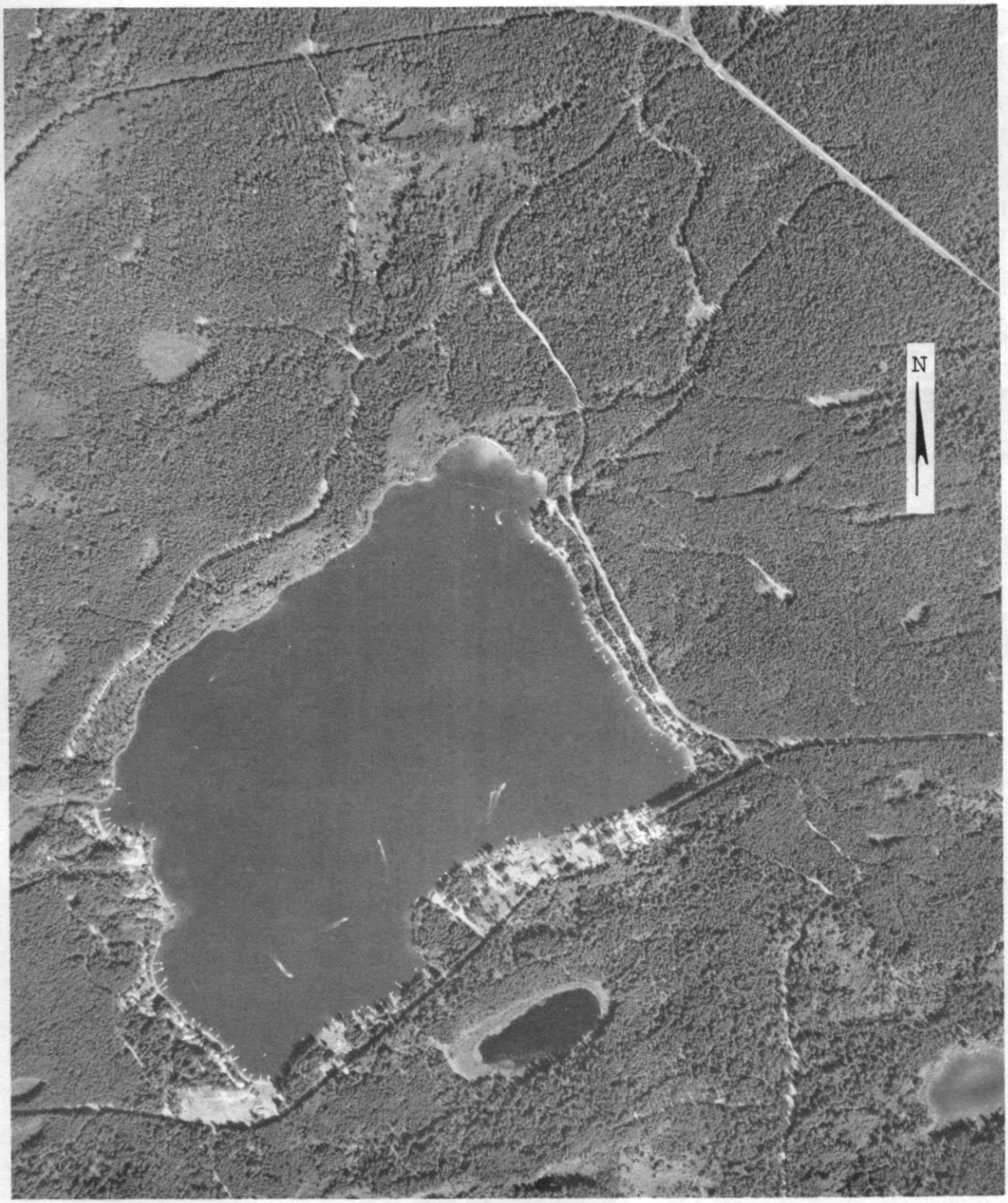
0 1000 2000 FEET

EXPLANATION

— 10 —

Line of equal
water depth
Interval 5 feet

Nahwatzel Lake, Mason County. From Washington Department of Game, June 7, 1949.



Nahwatzel Lake, Mason County. August 27, 1972. Approx. scale 1:12,000.

PHILLIPS LAKE MASON COUNTY

LATITUDE 47°14'52" LONGITUDE 122°57'52" T20N-R2W-5
PUGET SOUND BASIN

PHYSICAL DATA		CULTURAL DATA	
DRAINAGE AREA	0.50 SQ MI	RESIDENTIAL DEVELOPMENT	100 %
ALTITUDE	188. FT		
LAKE AREA	110. ACRES	NUMBER OF NEARSHORE HOMES	125
LAKE VOLUME	1800. ACRE-FT		
MEAN DEPTH	16. FT	LAND USE IN DRAINAGE BASIN	
MAXIMUM DEPTH	25. FT		
SHORELINE LENGTH	2.6 MI	RESIDENTIAL URBAN	0 %
SHORELINE CONFIGURATION	1.8	RESIDENTIAL SUBURBAN	30 %
DEVELOPMENT OF VOLUME	0.63	AGRICULTURAL	0 %
BOTTOM SLOPE	0.99 %	FOREST OR UNPRODUCTIVE	35 %
BASIN GEOLOGY	SED./META.	LAKE SURFACE	35 %
INFLOW	NONE VISIBLE		
OUTFLOW CHANNEL	PRESENT	PUBLIC BOAT ACCESS TO LAKE	YES

WATER-QUALITY DATA (IN MG/L UNLESS OTHERWISE INDICATED)

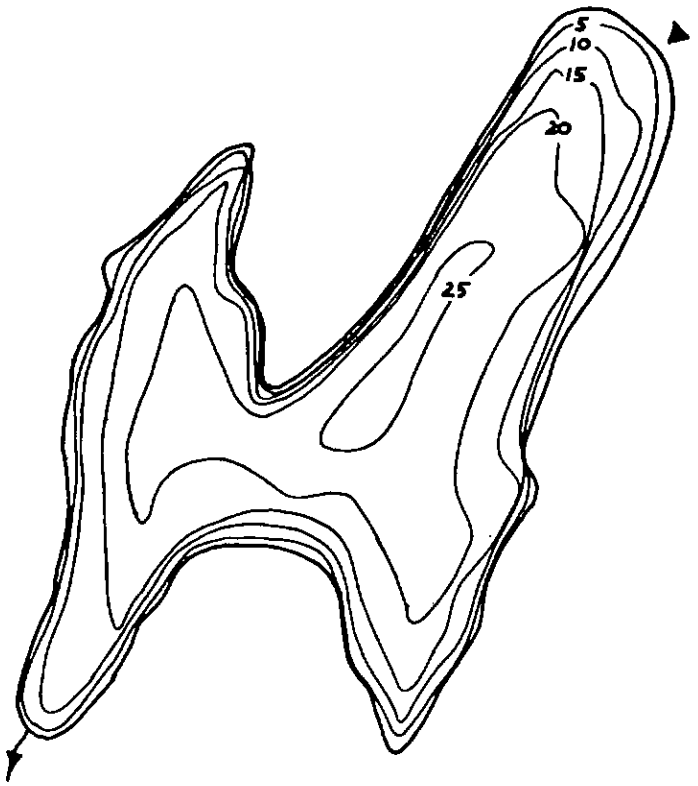
SAMPLE SITE	1	
DATE	6/29/72	
TIME	1340	1350
DEPTH (FT)	3.	16.
DISSOLVED NITRATE (N)	0.00	0.00
DISSOLVED NITRITE (N)	0.00	0.00
TOTAL AMMONIA (N)	0.03	0.06
TOTAL ORGANIC NITROGEN (N)	0.30	0.37
TOTAL PHOSPHORUS (P)	0.015	0.038
DISSOLVED ORTHOPHOSPHATE (P)	0.032	0.032
SPECIFIC CONDUCTANCE (MICROMHOS)	20	20
WATER TEMPERATURE (DEG C)	19.7	18.5
COLOR (PLATINUM-COBALT UNITS)	10	10
SECCHI-DISC VISIBILITY (FT)	16	
DISSOLVED OXYGEN	9.1	8.5

LAKE SHORELINE COVERED BY EMERSED PLANTS	LITTLE OR NONE
LAKE SURFACE COVERED BY EMERSED PLANTS	NONE OR <1 %

DATE	6/29/72
TIME	1400
NUMBER OF FECAL COLIFORM SAMPLES	4
FECAL COLIFORM, MINIMUM (COL./100ML)	<1
FECAL COLIFORM, MAXIMUM (COL./100ML)	<1
FECAL COLIFORM, MEAN (COL./100ML)	<1

REMARKS

VERY FEW ROOTED AQUATIC PLANTS WERE FOUND GROWING ON THE SAND AND GRAVEL LITTORAL BOTTOM. IN 1972 THE U.S. GEOLOGICAL SURVEY SAMPLED THE LAKE FOUR TIMES. THE PLANT SURVEY WAS MADE ON OCTOBER 17, 1972.



N

0 1000 2000 FEET

EXPLANATION

— 10 —

Line of equal
water depth
Interval 5 feet

Phillips Lake, Mason County. From Washington Department of Game, February 14, 1952.

Phillips Lake, Mason County. August 9, 1972. Approx. scale 1:7900.

PRICE LAKE MASON COUNTY

LATITUDE 47°28'23" LONGITUDE 123° 9'37" T23N-R4W-23
PUGET SOUND BASIN

PHYSICAL DATA		CULTURAL DATA	
DRAINAGE AREA	3.91 SQ MI	RESIDENTIAL DEVELOPMENT	0 %
ALTITUDE	780. FT		
LAKE AREA	62. ACRES	NUMBER OF NEARSHORE HOMES	0
LAKE VOLUME	380. ACRE-FT		
MEAN DEPTH	6. FT	LAND USE IN DRAINAGE BASIN	
MAXIMUM DEPTH	16. FT		
SHORELINE LENGTH	2.0 MI	RESIDENTIAL URBAN	0 %
SHORELINE CONFIGURATION	1.8	RESIDENTIAL SUBURBAN	0 %
DEVELOPMENT OF VOLUME	0.38	AGRICULTURAL	0 %
BOTTOM SLOPE	0.86 %	FOREST OR UNPRODUCTIVE	98 %
BASIN GEOLOGY	IGNEOUS	LAKE SURFACE	2 %
INFLOW	INTERMITTENT		
OUTFLOW CHANNEL	PRESENT	PUBLIC BOAT ACCESS TO LAKE	--

WATER-QUALITY DATA (IN MG/L UNLESS OTHERWISE INDICATED)

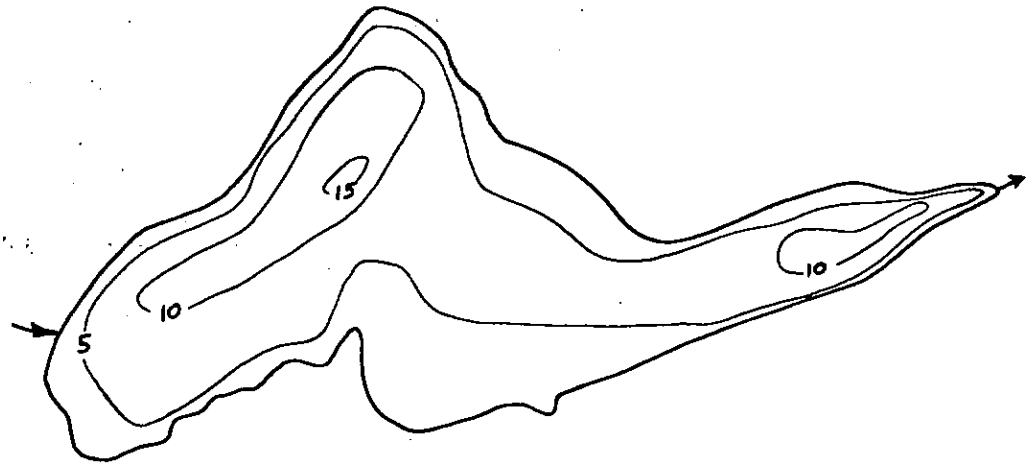
SAMPLE SITE	1	
DATE	8/21/74	
TIME	1405	1410
DEPTH (FT)	3.	7.
TOTAL NITRATE (N)	0.02	0.03
TOTAL NITRITE (N)	0.00	0.00
TOTAL AMMONIA (N)	0.05	0.06
TOTAL ORGANIC NITROGEN (N)	0.31	0.38
TOTAL PHOSPHORUS (P)	0.010	0.015
TOTAL ORTHOPHOSPHATE (P)	0.002	0.002
SPECIFIC CONDUCTANCE (MICROMHOS)	60	60
WATER TEMPERATURE (DEG C)	18.7	18.3
COLOR (PLATINUM-COBALT UNITS)	20	25
SECCHI-DISC VISIBILITY (FT)	8	
DISSOLVED OXYGEN	9.0	9.2

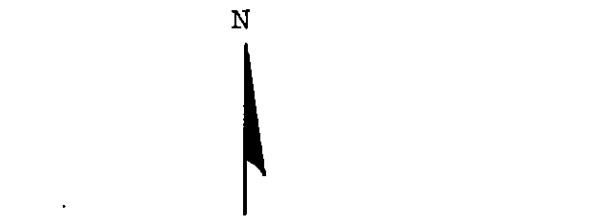
LAKE SHORELINE COVERED BY EMERSED PLANTS	76-100 %
LAKE SURFACE COVERED BY EMERSED PLANTS	26- 50 %

DATE	8/21/74
TIME	1415
NUMBER OF FECAL COLIFORM SAMPLES	3
FECAL COLIFORM, MINIMUM (COL./100ML)	<1
FECAL COLIFORM, MAXIMUM (COL./100ML)	1
FECAL COLIFORM, MEAN (COL./100ML)	1

REMARKS

A SHALLOW LAKE CHOKED WITH EMERSED AND SUBMERSED AQUATIC VEGETATION. MOST OF THE LAKE BOTTOM WAS COVERED WITH EMERSED PLANTS (PONDWEED). THE LITTORAL BOTTOM IS MUCK AND LITTERED WITH LOGS AND WOOD DEBRIS.





EXPLANATION

— 10 —

Line of equal
water depth
Interval 5 feet

Price Lake, Mason County. From Washington Department of Game, July 24, 1959.

Price Lake, Mason County. August 25, 1972. Approx. scale 1:12,000.

PRICKETT LAKE MASON COUNTY

LATITUDE 47°22'35" LONGITUDE 122°53'29" T22N-R2W-23
PUGET SOUND BASIN

PHYSICAL DATA		CULTURAL DATA	
DRAINAGE AREA	0.39 SQ MI	RESIDENTIAL DEVELOPMENT	35 %
ALTITUDE	301. FT		
LAKE AREA	74. ACRES	NUMBER OF NEARSHORE HOMES	41
LAKE VOLUME	990. ACRE-FT		
MEAN DEPTH	13. FT	LAND USE IN DRAINAGE BASIN	
MAXIMUM DEPTH	30. FT		
SHORELINE LENGTH	1.7 MI	RESIDENTIAL URBAN	0 %
SHORELINE CONFIGURATION	1.4	RESIDENTIAL SUBURBAN	11 %
DEVELOPMENT OF VOLUME	0.45	AGRICULTURAL	3 %
BOTTOM SLOPE	1.5 %	FOREST OR UNPRODUCTIVE	56 %
BASIN GEOLOGY	SED./META.	LAKE SURFACE	30 %
INFLOW	NONE VISIBLE		
OUTFLOW CHANNEL	PRESENT	PUBLIC BOAT ACCESS TO LAKE	YES

WATER-QUALITY DATA (IN MG/L UNLESS OTHERWISE INDICATED)

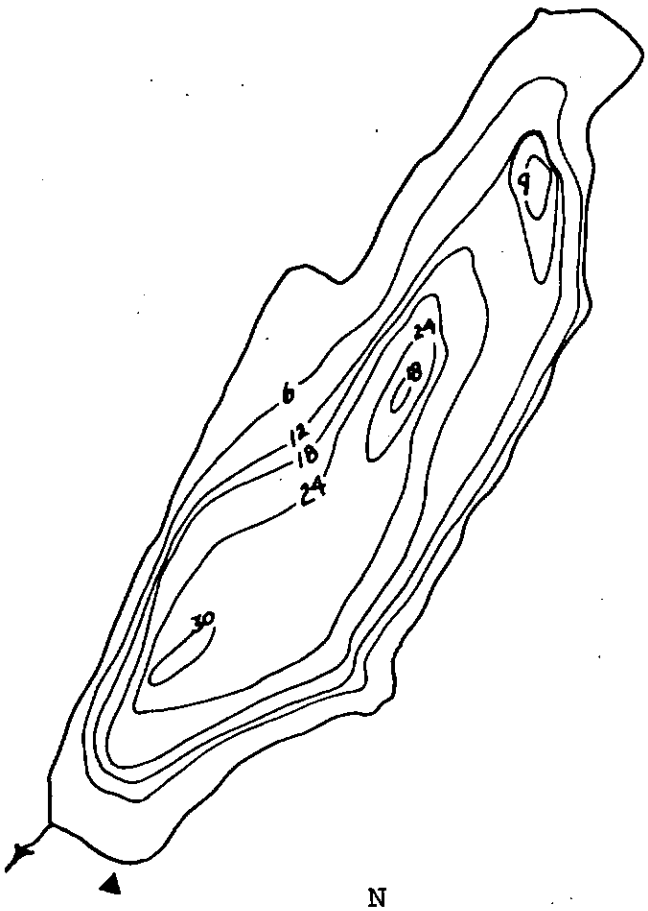
SAMPLE SITE	1	
DATE	8/27/74	
TIME	1230	1235
DEPTH (FT)	3.	20.
TOTAL NITRATE (N)	0.00	0.00
TOTAL NITRITE (N)	0.00	0.00
TOTAL AMMONIA (N)	0.07	0.05
TOTAL ORGANIC NITROGEN (N)	0.36	0.43
TOTAL PHOSPHORUS (P)	0.009	0.018
TOTAL ORTHOPHOSPHATE (P)	0.005	0.004
SPECIFIC CONDUCTANCE (MICROMHOS)	14	14
WATER TEMPERATURE (DEG C)	22.0	20.5
COLOR (PLATINUM-COBALT UNITS)	5	10
SECCHI-DISC VISIBILITY (FT)	12	
DISSOLVED OXYGEN	8.4	8.2

LAKE SHORELINE COVERED BY EMERSED PLANTS	26- 50 %
LAKE SURFACE COVERED BY EMERSED PLANTS	NONE OR <1 %

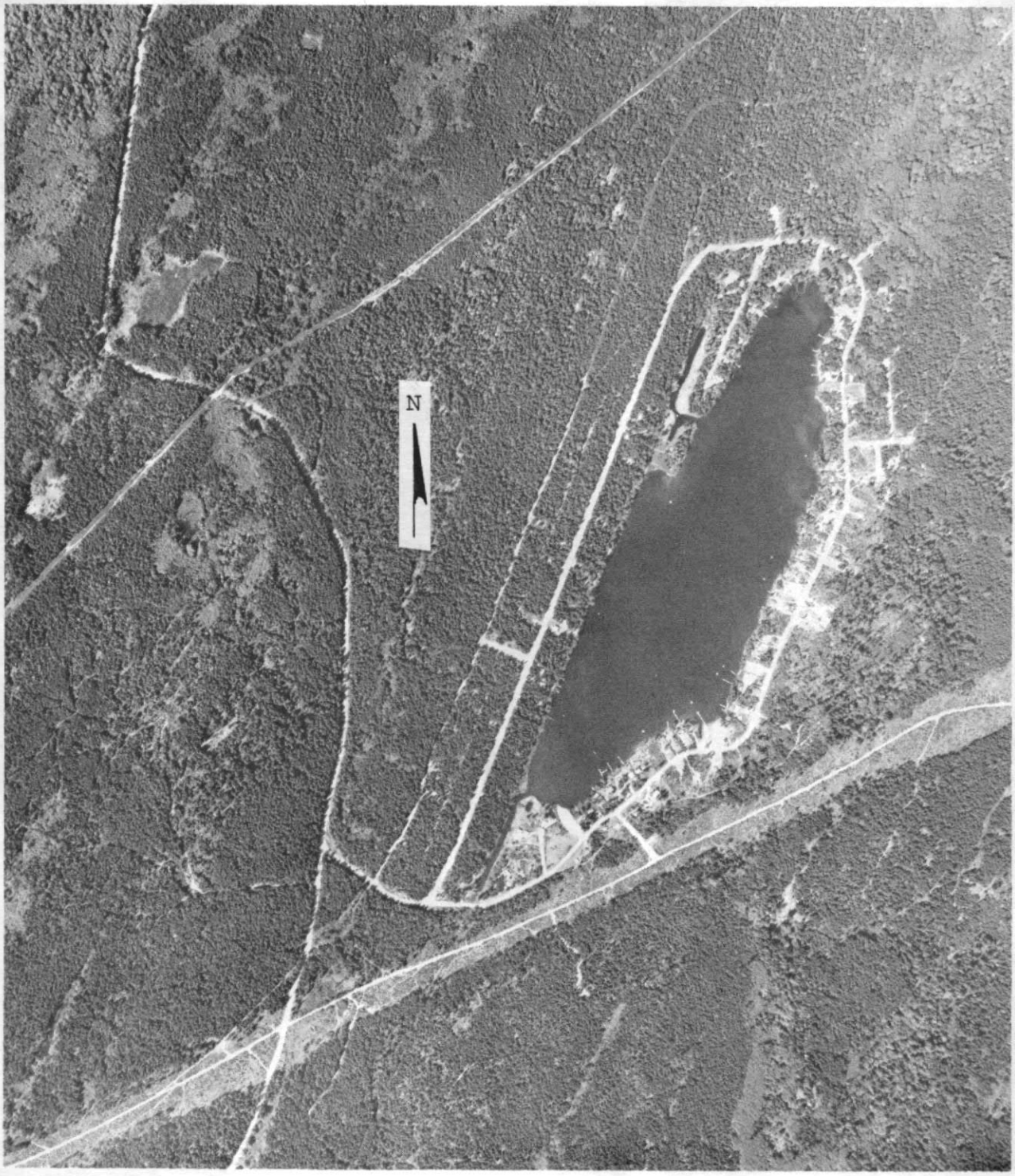
DATE	8/27/74
TIME	1300
NUMBER OF FECAL COLIFORM SAMPLES	4
FECAL COLIFORM, MINIMUM (COL./100ML)	<1
FECAL COLIFORM, MAXIMUM (COL./100ML)	8
FECAL COLIFORM, MEAN (COL./100ML)	3

REMARKS

CHANNELS HAVE BEEN DREDGED NEAR THE SOUTH AND NORTHWEST ENDS OF THE LAKE. THE LITTORAL BOTTOM IS MUCK AND THE NEARSHORE BEACH IS GRAVEL. THE DO WAS NEAR SATURATION THROUGHOUT THE WATER COLUMN.



Prickett Lake, Mason County. From Washington Department of Fisheries, June 6, 1957.



Prickett Lake, Mason County. May 12, 1972. Approx. scale 1:12,000.

SIMPSON LAKE MASON COUNTY

LATITUDE 47* 7'52" LONGITUDE 123*20'26" T19N-R5W-17
CHEHALIS RIVER BASIN

PHYSICAL DATA		CULTURAL DATA	
DRAINAGE AREA	0.68 SQ MI	RESIDENTIAL DEVELOPMENT	3 %
ALTITUDE	330. FT		
LAKE AREA	29. ACRES	NUMBER OF NEARSHORE HOMES	2
LAKE VOLUME	310. ACRE-FT		
MEAN DEPTH	11. FT	LAND USE IN DRAINAGE BASIN	
MAXIMUM DEPTH	17. FT		
SHORELINE LENGTH	0.90 MI	RESIDENTIAL URBAN	0 %
SHORELINE CONFIGURATION	1.2	RESIDENTIAL SUBURBAN	2 %
DEVELOPMENT OF VOLUME	0.63	AGRICULTURAL	0 %
BOTTOM SLOPE	1.3 %	FOREST OR UNPRODUCTIVE	91 %
BASIN GEOLOGY	SED./META.	LAKE SURFACE	7 %
INFLOW	INTERMITTENT		
OUTFLOW CHANNEL	PRESENT	PUBLIC BOAT ACCESS TO LAKE	--

WATER-QUALITY DATA (IN MG/L UNLESS OTHERWISE INDICATED)

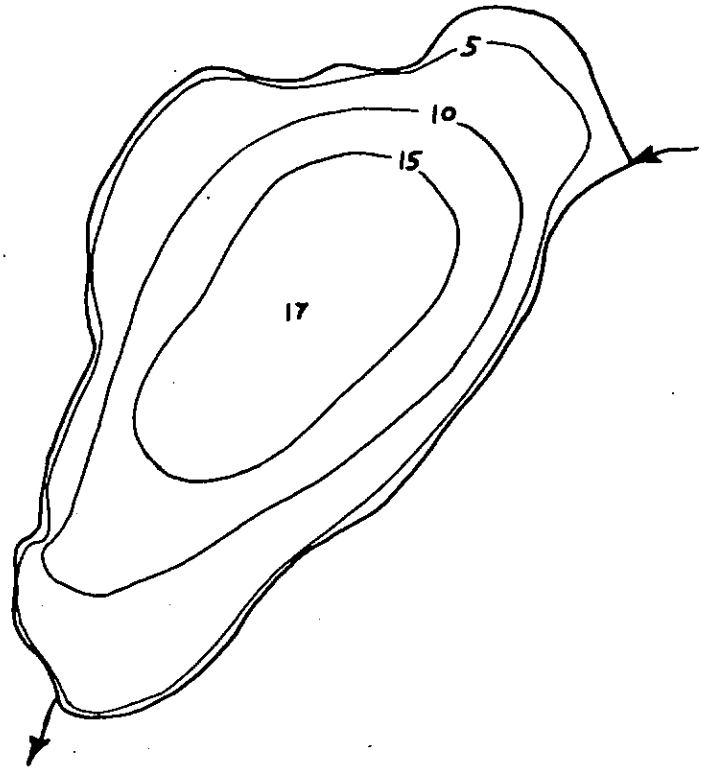
SAMPLE SITE	1	
DATE	8/15/74	
TIME	1330	1335
DEPTH (FT)	3.	10.
TOTAL NITRATE (N)	0.01	0.02
TOTAL NITRITE (N)	0.00	0.00
TOTAL AMMONIA (N)	0.08	0.08
TOTAL ORGANIC NITROGEN (N)	0.44	0.37
TOTAL PHOSPHORUS (P)	0.011	0.014
TOTAL ORTHOPHOSPHATE (P)	0.002	0.002
SPECIFIC CONDUCTANCE (MICROMHOS)	50	50
WATER TEMPERATURE (DEG C)	19.9	19.1
COLOR (PLATINUM-COBALT UNITS)	15	15
SECCHI-DISC VISIBILITY (FT)	>14	
DISSOLVED OXYGEN	8.4	8.4

LAKE SHORELINE COVERED BY EMERSED PLANTS	51- 75 %
LAKE SURFACE COVERED BY EMERSED PLANTS	NONE OR <1 %

DATE	8/15/74
TIME	1340
NUMBER OF FECAL COLIFORM SAMPLES	3
FECAL COLIFORM, MINIMUM (COL./100ML)	<1
FECAL COLIFORM, MAXIMUM (COL./100ML)	1
FECAL COLIFORM, MEAN (COL./100ML)	<1

REMARKS

AN EXTENSIVE NETWORK OF CHANNELS HAS BEEN DREDGED TO INCREASE WATERFRONT TO A PROPOSED RESIDENTIAL DEVELOPMENT. SUBMERSED PLANTS WERE THINLY SCATTERED AND PATCHY NEAR THE SHORELINE, BUT A HEAVY GROWTH OF SUBMERSED PLANTS (WATER MILFOIL) COVERED THE LAKE BOTTOM. THE LITTORAL BOTTOM IS MUCK.



N

0 500 1000 FEET

EXPLANATION

— 10 —

Line of equal
water depth
Interval 5 feet

Simpson Lake, Mason County. From Washington Department of Game, June 1, 1946.

Simpson Lake, Mason County. June 30, 1974. Approx. scale 1:4800.

SPENCER LAKE MASON COUNTY

LATITUDE 41°75'33" LONGITUDE 122°58'11" T21N-R2W-32
PUGET SOUND BASIN

PHYSICAL DATA		CULTURAL DATA	
DRAINAGE AREA	1.68 SQ MI	RESIDENTIAL DEVELOPMENT	33 %
ALTITUDE	170. FT		
LAKE AREA	230. ACRES	NUMBER OF NEARSHORE HOMES	89
LAKE VOLUME	5200. ACRE-FT		
MEAN DEPTH	22. FT	LAND USE IN DRAINAGE BASIN	
MAXIMUM DEPTH	36. FT		
SHORELINE LENGTH	4.3 MI	RESIDENTIAL URBAN	0 %
SHORELINE CONFIGURATION	2.0	RESIDENTIAL SUBURBAN	4 %
DEVELOPMENT OF VOLUME	0.62	AGRICULTURAL	3 %
BOTTOM SLOPE	1.0 %	FOREST OR UNPRODUCTIVE	72 %
BASIN GEOLOGY	SED./META.	LAKE SURFACE	21 %
INFLOW	NONE VISIBLE		
OUTFLOW CHANNEL	PRESENT	PUBLIC BOAT ACCESS TO LAKE	YES

WATER-QUALITY DATA (IN MG/L UNLESS OTHERWISE INDICATED)

SAMPLE SITE	1	
DATE	8/20/74	
TIME	1440	1445
DEPTH (FT)	3.	26.
TOTAL NITRATE (N)	0.00	0.00
TOTAL NITRITE (N)	0.01	0.01
TOTAL AMMONIA (N)	0.06	0.06
TOTAL ORGANIC NITROGEN (N)	0.77	0.43
TOTAL PHOSPHORUS (P)	0.009	0.018
TOTAL ORTHOPHOSPHATE (P)	0.003	0.004
SPECIFIC CONDUCTANCE (MICROMHOS)	30	30
WATER TEMPERATURE (DEG C)	19.6	16.3
COLOR (PLATINUM-COBALT UNITS)	0	0
SECCHI-DISC VISIBILITY (FT)	10	
DISSOLVED OXYGEN	9.0	0.5

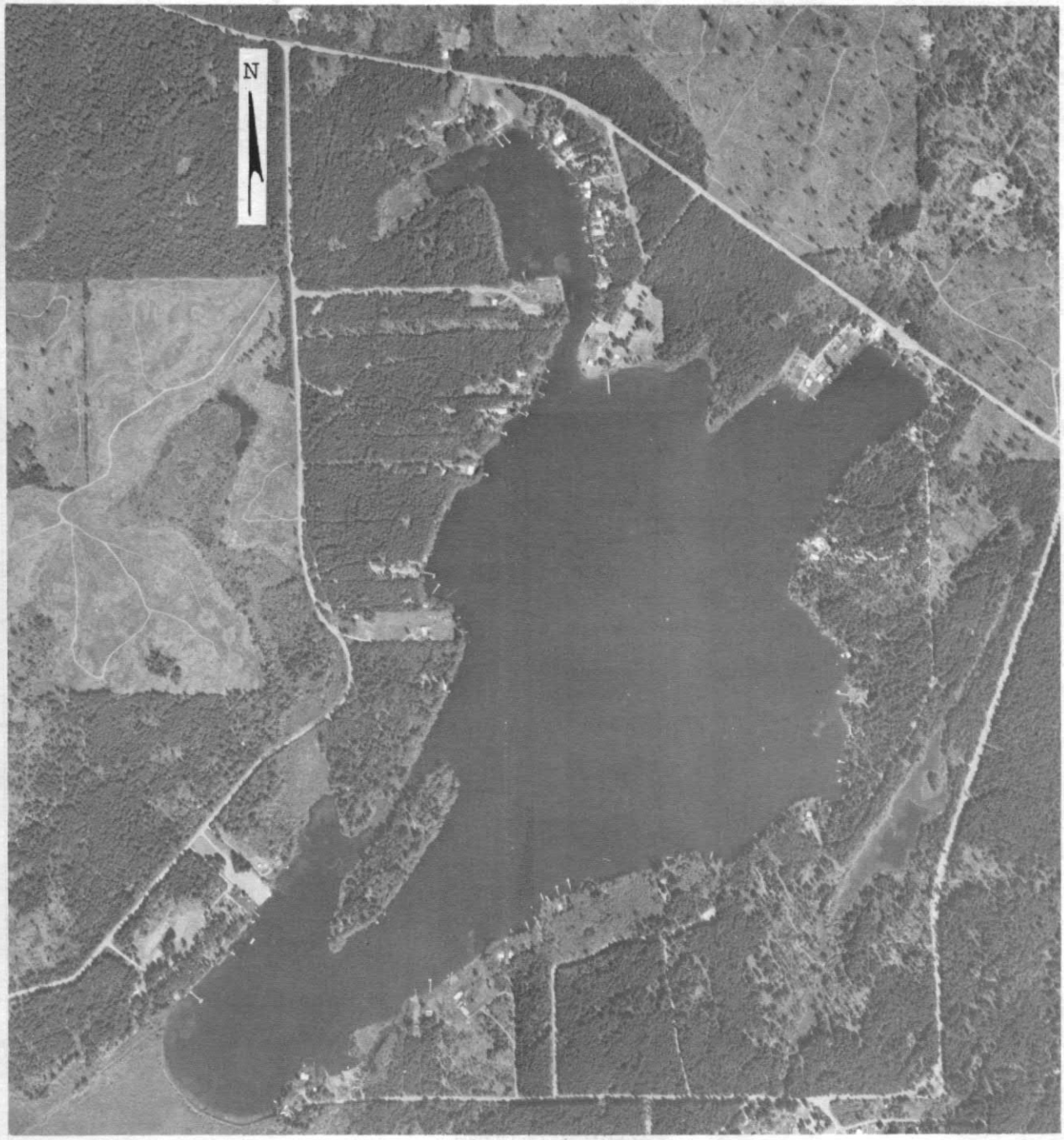
LAKE SHORELINE COVERED BY EMERSED PLANTS	51- 75 %
LAKE SURFACE COVERED BY EMERSED PLANTS	1- 10 %

DATE	8/20/74
TIME	1500
NUMBER OF FECAL COLIFORM SAMPLES	4
FECAL COLIFORM, MINIMUM (COL./100ML)	<1
FECAL COLIFORM, MAXIMUM (COL./100ML)	20
FECAL COLIFORM, MEAN (COL./100ML)	8

REMARKS

DENSE BEDS OF EMERSED PLANTS WERE OBSERVED IN THE SHALLOW NORTH BAY AND THE SOUTHWEST BAY NEAR THE OUTLET.

Spencer Lake, Mason County. From Washington Department of Game, July 30, 1947.



Spencer Lake, Mason County. May 12, 1972. Approx. scale 1:12,000.

STUMP LAKE MASON COUNTY

LATITUDE 47° 6' 4" LONGITUDE 123°19'33" T19N-R5W-28
CHEHALIS RIVER BASIN

PHYSICAL DATA		CULTURAL DATA	
DRAINAGE AREA	19.8 SQ MI	RESIDENTIAL DEVELOPMENT	0 %
ALTITUDE	300. FT		
LAKE AREA	29. ACRES	NUMBER OF NEARSHORE HOMES	0
LAKE VOLUME	260. ACRE-FT		
MEAN DEPTH	9. FT	LAND USE IN DRAINAGE BASIN	
MAXIMUM DEPTH	21. FT		
SHORELINE LENGTH	1.5 MI	RESIDENTIAL URBAN	0 %
SHORELINE CONFIGURATION	2.0	RESIDENTIAL SUBURBAN	<1 %
DEVELOPMENT OF VOLUME	0.44	AGRICULTURAL	<1 %
BOTTOM SLOPE	1.7 %	FOREST OR UNPRODUCTIVE	99 %
BASIN GEOLOGY	IGNEOUS	LAKE SURFACE	1 %
INFLOW	PERENNIAL		
OUTFLOW CHANNEL	ABSENT	PUBLIC BOAT ACCESS TO LAKE	YES

WATER-QUALITY DATA (IN MG/L UNLESS OTHERWISE INDICATED)

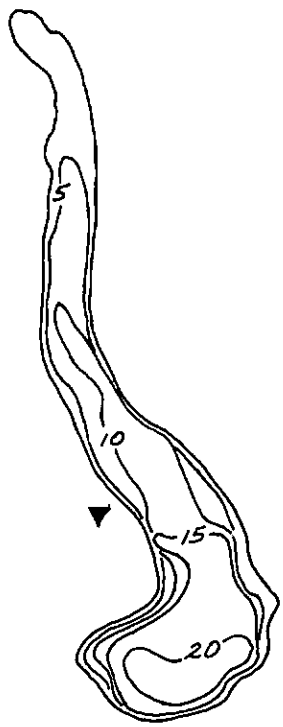
SAMPLE SITE	1	
DATE	8/15/74	
TIME	1420	1425
DEPTH (FT)	3.	16.
TOTAL NITRATE (N)	0.02	0.00
TOTAL NITRITE (N)	0.00	0.01
TOTAL AMMONIA (N)	0.09	2.0
TOTAL ORGANIC NITROGEN (N)	0.64	0.40
TOTAL PHOSPHORUS (P)	0.041	0.091
TOTAL ORTHOPHOSPHATE (P)	0.008	0.66
SPECIFIC CONDUCTANCE (MICROMHOS)	66	110
WATER TEMPERATURE (DEG C)	19.3	11.1
COLOR (PLATINUM-COBALT UNITS)	10	75
SECCHI-DISC VISIBILITY (FT)	8	
DISSOLVED OXYGEN	9.7	0.2

LAKE SHORELINE COVERED BY EMERSED PLANTS	26- 50 %
LAKE SURFACE COVERED BY EMERSED PLANTS	1- 10 %

DATE	8/15/74
TIME	1440
NUMBER OF FECAL COLIFORM SAMPLES	3
FECAL COLIFORM, MINIMUM (COL./100ML)	<1
FECAL COLIFORM, MAXIMUM (COL./100ML)	1
FECAL COLIFORM, MEAN (COL./100ML)	1

REMARKS

THE LAKE IS AN OLD CREEK CHANNEL FILLED WITH STUMPS AND DEBRIS. TREES OVERHANG THE WATER AT THE SHORELINE. SUBMERSED PLANTS COVERED MOST OF THE LAKE BOTTOM, WHICH IS SOFT MUCK. AN ALGAL BLOOM WAS OBSERVED.



N

0 1000 2000 FEET

EXPLANATION

—10—

Line of equal
water depth
Interval 5 feet

Stump Lake, Mason County. From
U.S. Geological Survey, May 29, 1974.

Stump Lake, Mason County. August 25, 1972. Approx. scale 1:12,000.

TEE LAKE MASON COUNTY

LATITUDE 47°25'46" LONGITUDE 123° 1'24" T22N-R3W-2
PUGET SOUND BASIN

PHYSICAL DATA		CULTURAL DATA	
DRAINAGE AREA	0.97 SQ MI	RESIDENTIAL DEVELOPMENT	28 %
ALTITUDE	390. FT		
LAKE AREA	47. ACRES	NUMBER OF NEARSHORE HOMES	23
LAKE VOLUME	420. ACRE-FT		
MEAN DEPTH	9. FT	LAND USE IN DRAINAGE BASIN	
MAXIMUM DEPTH	17. FT		
SHORELINE LENGTH	1.7 MI	RESIDENTIAL URBAN	0 %
SHORELINE CONFIGURATION	1.8	RESIDENTIAL SUBURBAN	3 %
DEVELOPMENT OF VOLUME	0.52	AGRICULTURAL	0 %
BOTTOM SLOPE	1.0 %	FOREST OR UNPRODUCTIVE	89 %
BASIN GEOLOGY	SED./META.	LAKE SURFACE	8 %
INFLOW	NONE VISIBLE		
OUTFLOW CHANNEL	PRESENT	PUBLIC BOAT ACCESS TO LAKE	YES

WATER-QUALITY DATA (IN MG/L UNLESS OTHERWISE INDICATED)

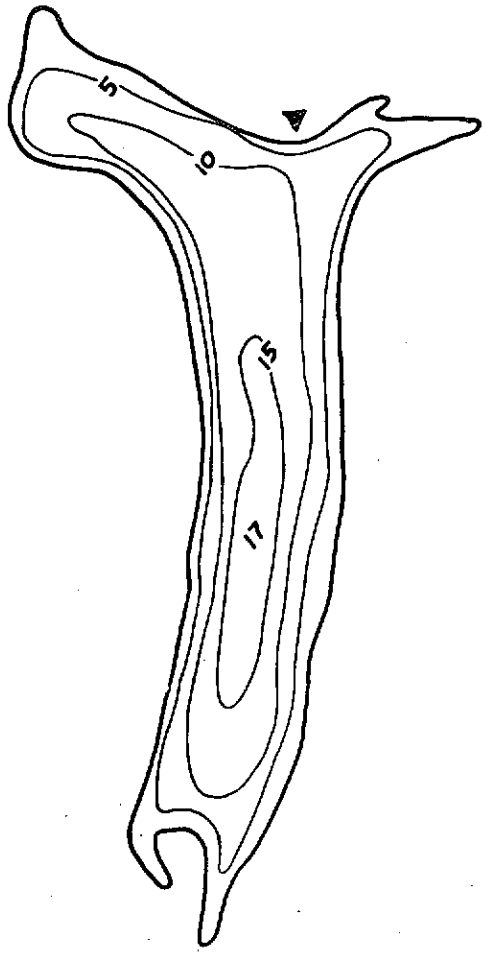
SAMPLE SITE	1	
DATE	8/26/74	
TIME	1230	1235
DEPTH (FT)	3.	13.
TOTAL NITRATE (N)	0.02	0.02
TOTAL NITRITE (N)	0.00	0.01
TOTAL AMMONIA (N)	0.05	0.09
TOTAL ORGANIC NITROGEN (N)	0.24	0.25
TOTAL PHOSPHORUS (P)	0.010	0.014
TOTAL ORTHOPHOSPHATE (P)	0.005	0.005
SPECIFIC CONDUCTANCE (MICROMHOS)	21	21
WATER TEMPERATURE (DEG C)	21.5	20.2
COLOR (PLATINUM-COBALT UNITS)	0	0
SECCHI-DISC VISIBILITY (FT)	8	
DISSOLVED OXYGEN	9.0	8.0

LAKE SHORELINE COVERED BY EMERSED PLANTS	51- 75 %
LAKE SURFACE COVERED BY EMERSED PLANTS	11- 25 %

DATE	8/26/74
TIME	1230
NUMBER OF FECAL COLIFORM SAMPLES	3
FECAL COLIFORM, MINIMUM (COL./100ML)	<1
FECAL COLIFORM, MAXIMUM (COL./100ML)	<1
FECAL COLIFORM, MEAN (COL./100ML)	<1

REMARKS

EMERSED PLANTS WERE SCATTERED IN PATCHES ALONG THE SHORELINE AND IN DENSE BEDS IN THE BAY AREAS. SUBMERSED PLANTS (PONDWEED) COVERED A LARGE PERCENTAGE OF THE LAKE BOTTOM. FLOATING LOGS AND WOOD DEBRIS COVERED THE SHORELINE LOCALLY. THE LITTORAL BOTTOM IN THE BAY AREAS IS MOSTLY MUCK.

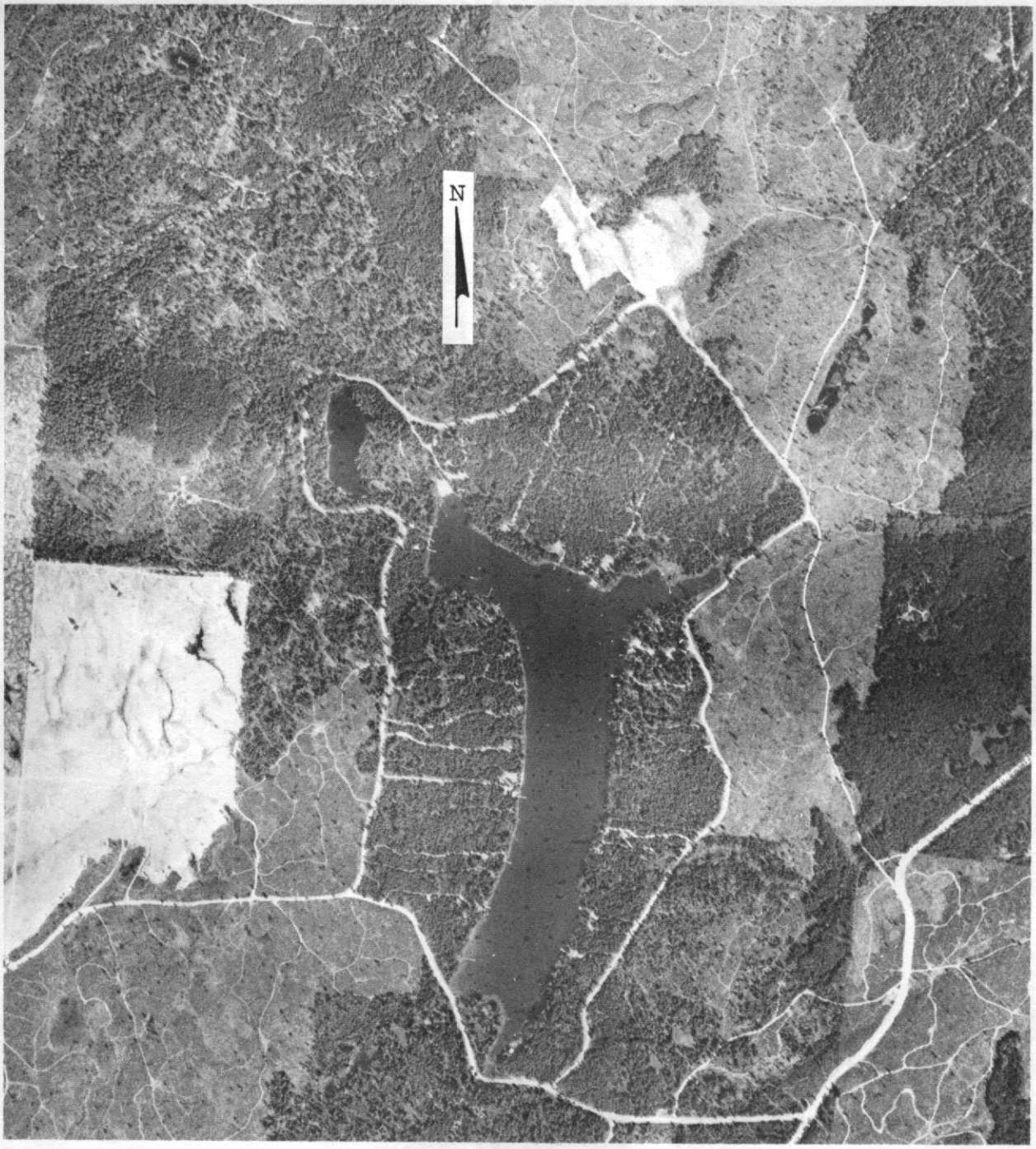


0 500 1000 FEET

EXPLANATION

—10—
Line of equal
water depth
Interval 5 feet

Tee Lake, Mason County. From Washington Department of Game, June 12, 1950.



Tee Lake, Mason County. May 12, 1972. Approx. scale 1:12,000.

TIGER LAKE MASON COUNTY

LATITUDE 47*30'31" LONGITUDE 122*50' 8" T23N-R1W-5
PUGET SOUND BASIN

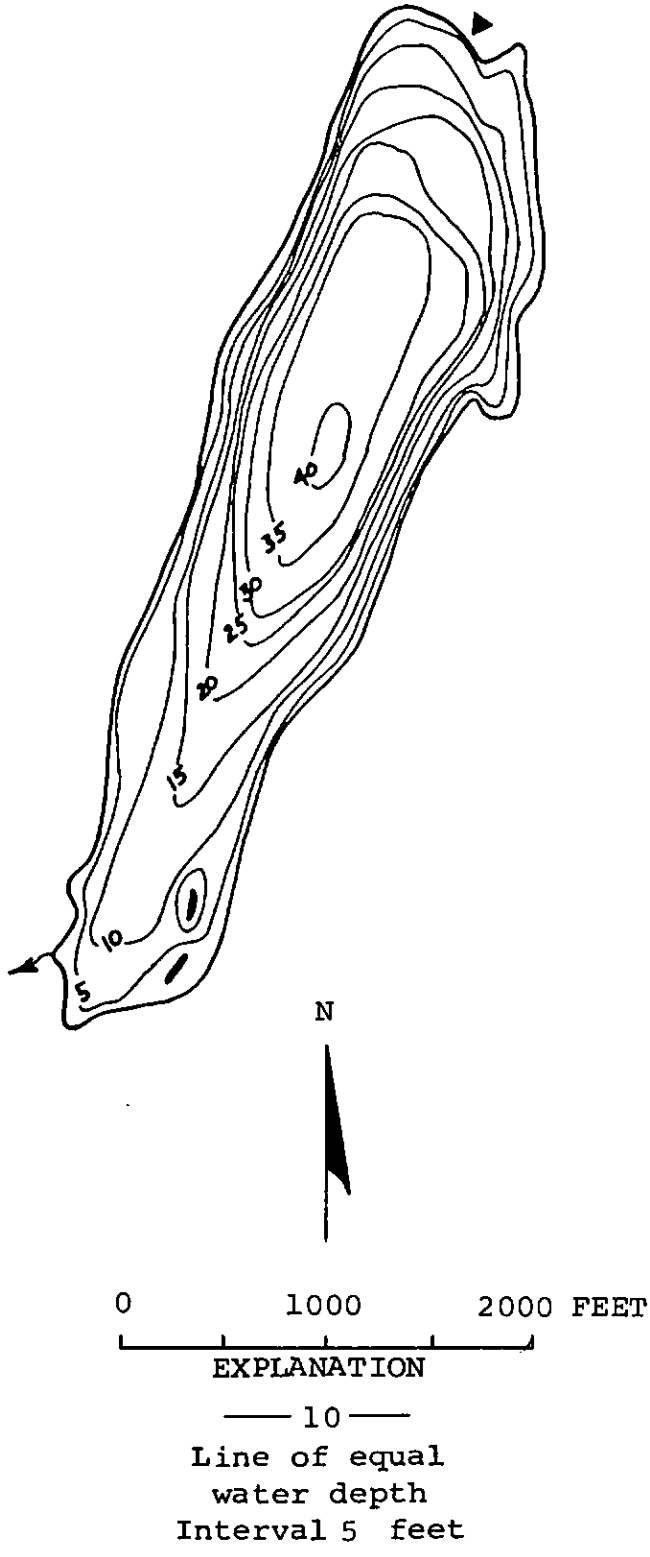
PHYSICAL DATA		CULTURAL DATA	
DRAINAGE AREA	0.70 SQ MI	RESIDENTIAL DEVELOPMENT	100 %
ALTITUDE	496. FT		
LAKE AREA	110. ACRES	NUMBER OF NEARSHORE HOMES	80
LAKE VOLUME	2100. ACRE-FT		
MEAN DEPTH	19. FT	LAND USE IN DRAINAGE BASIN	
MAXIMUM DEPTH	40. FT		
SHORELINE LENGTH	2.5 MI	RESIDENTIAL URBAN	0 %
SHORELINE CONFIGURATION	1.7	RESIDENTIAL SUBURBAN	14 %
DEVELOPMENT OF VOLUME	0.48	AGRICULTURAL	0 %
BOTTOM SLOPE	1.6 %	FOREST OR UNPRODUCTIVE	61 %
BASIN GEOLOGY	SED./META.	LAKE SURFACE	25 %
INFLOW	INTERMITTENT		
OUTFLOW CHANNEL	PRESENT	PUBLIC BOAT ACCESS TO LAKE	YES

WATER-QUALITY DATA (IN MG/L UNLESS OTHERWISE INDICATED)

SAMPLE SITE	1	
DATE	6/73/20	
TIME	950	1000
DEPTH (FT)	3.	33.
TOTAL NITRATE (N)	0.01	0.01
TOTAL NITRITE (N)	0.00	0.00
TOTAL AMMONIA (N)	0.03	0.07
TOTAL ORGANIC NITROGEN (N)	0.07	0.06
TOTAL PHOSPHORUS (P)	0.004	0.061
TOTAL ORTHOPHOSPHATE (P)	0.001	0.002
SPECIFIC CONDUCTANCE (MICROMHOS)	--	--
WATER TEMPERATURE (DEG C)	17.8	15.5
COLOR (PLATINUM-COBALT UNITS)	0	5
SECCHI-DISC VISIBILITY (FT)	12	
DISSOLVED OXYGEN	9.2	5.7
LAKE SHORELINE COVERED BY EMERSED PLANTS	11- 25 %	
LAKE SURFACE COVERED BY EMERSED PLANTS	NONE OR <1 %	
DATE	6/20/73	
TIME	1035	
NUMBER OF FECAL COLIFORM SAMPLES	4	
FECAL COLIFORM, MINIMUM (COL./100ML)	<1	
FECAL COLIFORM, MAXIMUM (COL./100ML)	30	
FECAL COLIFORM, MEAN (COL./100ML)	10	

REMARKS

THE LITTORAL BOTTOM OF GRAVEL, COBBLE, AND SAND SUPPORTED A SPARSE GROWTH OF AQUATIC MACROPHYTES. IN 1973 THE U.S. GEOLOGICAL SURVEY SAMPLED THE LAKE FOUR TIMES. THE PLANT SURVEY WAS MADE ON AUGUST 14, 1973.



Tiger Lake, Mason County. From Washington Department of Game, June 18, 1952.

Tiger Lake, Mason County. May 28, 1972. Approx. scale 1:12,000.

TIMBER LAKE MASON COUNTY

LATITUDE 47°13'26" LONGITUDE 122°58'48" T20N-R2W-18
PUGET SOUND BASIN

PHYSICAL DATA		CULTURAL DATA	
DRAINAGE AREA	1.82 SQ MI	RESIDENTIAL DEVELOPMENT	31 %
ALTITUDE	180. FT		
LAKE AREA	82. ACRES	NUMBER OF NEARSHORE HOMES	17
LAKE VOLUME	780. ACRE-FT		
MEAN DEPTH	10. FT	LAND USE IN DRAINAGE BASIN	
MAXIMUM DEPTH	21. FT		
SHORELINE LENGTH	2.8 MI	RESIDENTIAL URBAN	0 %
SHORELINE CONFIGURATION	2.2	RESIDENTIAL SUBURBAN	10 %
DEVELOPMENT OF VOLUME	0.46	AGRICULTURAL	0 %
BOTTOM SLOPE	0.99 %	FOREST OR UNPRODUCTIVE	83 %
BASIN GEOLOGY	SED./META.	LAKE SURFACE	7 %
INFLOW	INTERMITTENT		
OUTFLOW CHANNEL	PRESENT	PUBLIC BOAT ACCESS TO LAKE	--

WATER-QUALITY DATA (IN MG/L UNLESS OTHERWISE INDICATED)

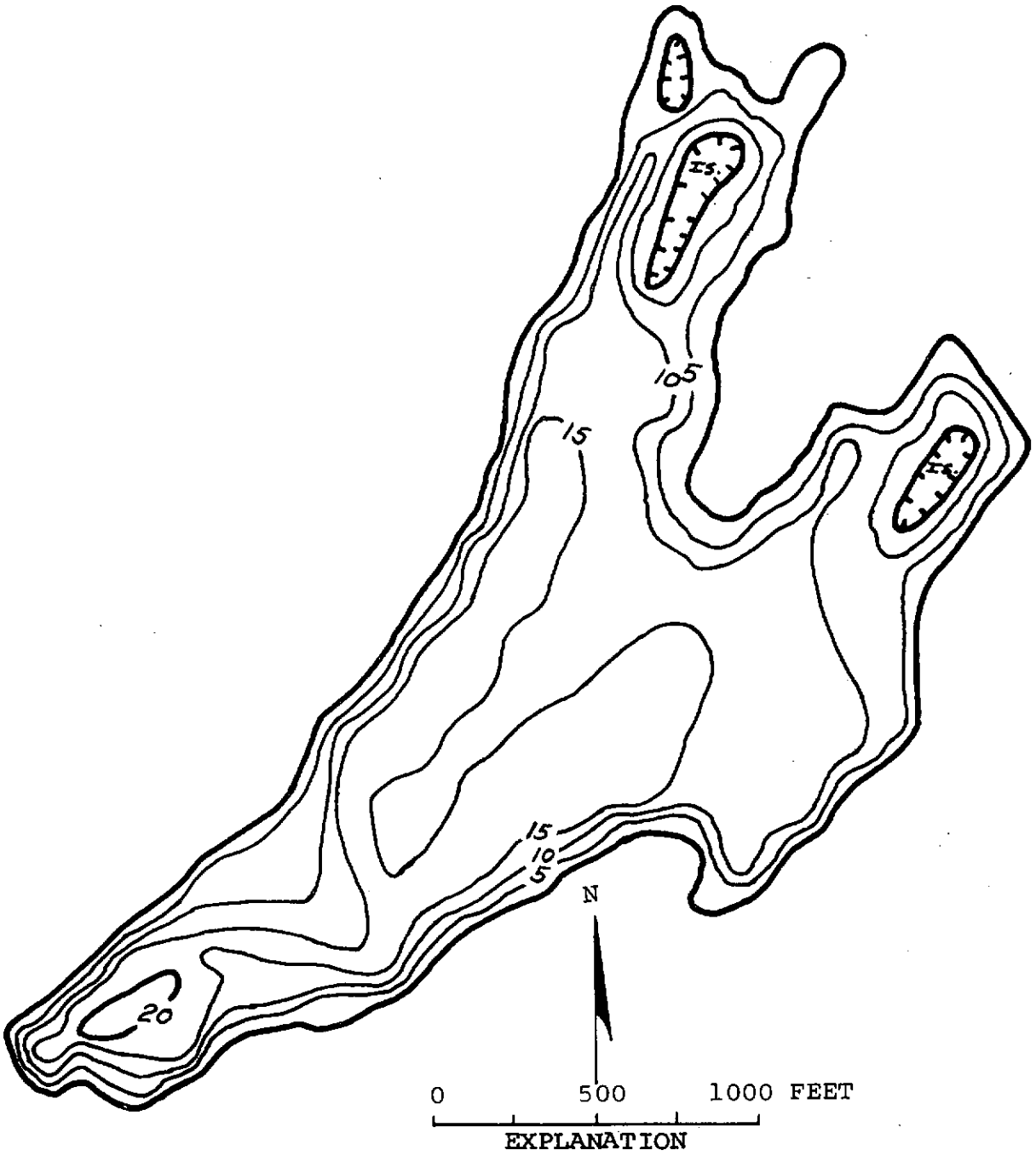
SAMPLE SITE	1	
DATE	8/20/74	
TIME	1320	1325
DEPTH (FT)	3.	11.
TOTAL NITRATE (N)	0.01	0.00
TOTAL NITRITE (N)	0.01	0.01
TOTAL AMMONIA (N)	0.08	0.07
TOTAL ORGANIC NITROGEN (N)	0.37	0.44
TOTAL PHOSPHORUS (P)	0.014	0.011
TOTAL ORTHOPHOSPHATE (P)	0.006	0.004
SPECIFIC CONDUCTANCE (MICROMHOS)	40	40
WATER TEMPERATURE (DEG C)	19.6	19.0
COLOR (PLATINUM-COBALT UNITS)	30	30
SECCHI-DISC VISIBILITY (FT)	5	
DISSOLVED OXYGEN	8.3	8.0

LAKE SHORELINE COVERED BY EMERSED PLANTS	11- 25 %
LAKE SURFACE COVERED BY EMERSED PLANTS	NONE OR <1 %

DATE	8/20/74
TIME	1340
NUMBER OF FECAL COLIFORM SAMPLES	4
FECAL COLIFORM, MINIMUM (COL./100ML)	<1
FECAL COLIFORM, MAXIMUM (COL./100ML)	13
FECAL COLIFORM, MEAN (COL./100ML)	6

REMARKS

A RECENT ARTIFICIAL LAKE CREATED BY DREDGING THE SWAMPY LAND AND DAMMING THE OUTLET CREEK. THE LAKE IS FED BY PHILLIPS LAKE VIA A LARGE MARSH. A DENSE COVER OF SUBMERSED PLANTS (ELODEA) WAS OBSERVED LOCALLY IN THE LAKE.



Timber Lake, Mason County. From
U.S. Geological Survey, December 27, 1973.

Timber Lake, Mason County. September 2, 1973. Approx. scale 1:12,000.

WOOTEN LAKE MASON COUNTY

LATITUDE 47°27'55" LONGITUDE 122°58'57" T23N-R2W-19
TAHUYA RIVER BASIN

PHYSICAL DATA		CULTURAL DATA	
DRAINAGE AREA	0.32 SQ MI	RESIDENTIAL DEVELOPMENT	58 %
ALTITUDE	407. FT		
LAKE AREA	68. ACRES	NUMBER OF NEARSHORE HOMES	47
LAKE VOLUME	1500. ACRE-FT		
MEAN DEPTH	23. FT	LAND USE IN DRAINAGE BASIN	
MAXIMUM DEPTH	36. FT		
SHORELINE LENGTH	1.5 MI	RESIDENTIAL URBAN	0 %
SHORELINE CONFIGURATION	1.3	RESIDENTIAL SUBURBAN	19 %
DEVELOPMENT OF VOLUME	0.63	AGRICULTURAL	0 %
BOTTOM SLOPE	1.8 %	FOREST OR UNPRODUCTIVE	48 %
BASIN GEOLOGY	SED./META.	LAKE SURFACE	33 %
INFLOW	NONE VISIBLE		
OUTFLOW CHANNEL	PRESENT	PUBLIC BOAT ACCESS TO LAKE	YES

WATER-QUALITY DATA (IN MG/L UNLESS OTHERWISE INDICATED)

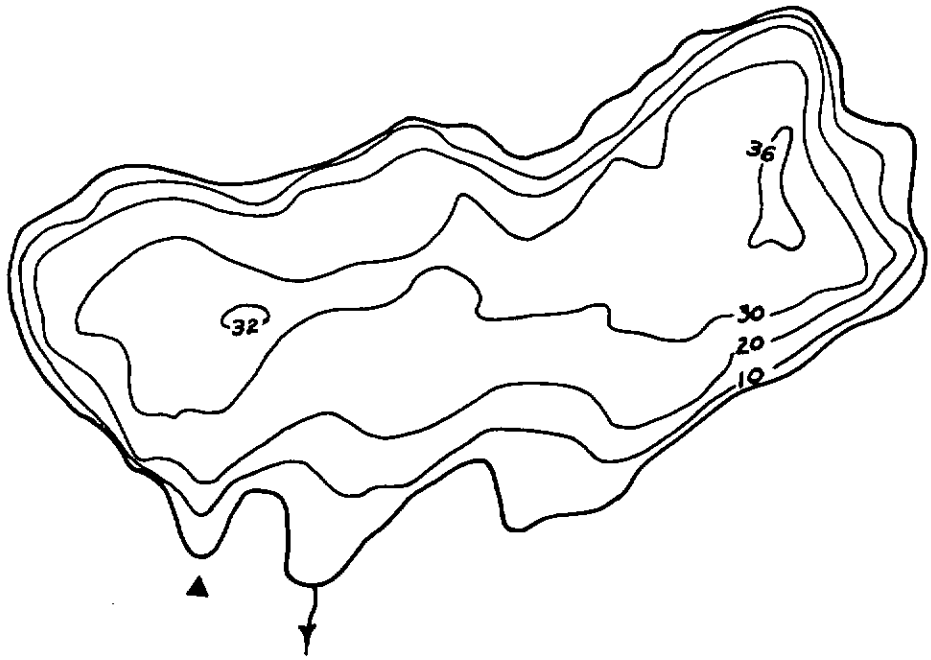
SAMPLE SITE	1	
DATE	8/22/74	
TIME	1145	1150
DEPTH (FT)	3.	23.
TOTAL NITRATE (N)	0.01	0.01
TOTAL NITRITE (N)	0.00	0.00
TOTAL AMMONIA (N)	0.04	0.08
TOTAL ORGANIC NITROGEN (N)	0.36	0.26
TOTAL PHOSPHORUS (P)	0.005	0.005
TOTAL ORTHOPHOSPHATE (P)	0.002	0.002
SPECIFIC CONDUCTANCE (MICROMHOS)	30	25
WATER TEMPERATURE (DEG C)	21.0	20.0
COLOR (PLATINUM-COBALT UNITS)	15	10
SECCHI-DISC VISIBILITY (FT)	15	
DISSOLVED OXYGEN	8.8	8.4

LAKE SHORELINE COVERED BY EMERSED PLANTS	11- 25 %
LAKE SURFACE COVERED BY EMERSED PLANTS	NONE OR <1 %

DATE	8/22/74
TIME	1200
NUMBER OF FECAL COLIFORM SAMPLES	3
FECAL COLIFORM, MINIMUM (COL./100ML)	<1
FECAL COLIFORM, MAXIMUM (COL./100ML)	6
FECAL COLIFORM, MEAN (COL./100ML)	2

REMARKS

THE LAKE DRAINS TO HAVEN LAKE. THE SHORES ARE GRAVEL AND SUPPORTED ONLY THINLY SCATTERED EMERSED PLANTS. THE DO WAS NEAR SATURATION THROUGHOUT THE ENTIRE WATER COLUMN.



N

0 500 1000 FEET

EXPLANATION

— 20 —

Line of equal
water depth
Interval 10 feet

Wooten Lake, Mason County. From Washington Department of Game, July 23, 1948.

Wooten Lake, Mason County. August 24, 1972. Approx. scale 1:12,000.